

HON. TIMOTHY W. GOOD

Mayor 1915

Cambridge, Massachusetts



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City of Cambridge

Massachusetts

THE ANNUAL REPORTS

Made to the City Council

FOR THE

Year Ending March 31, 1916



PUBLISHED BY ORDER OF THE CITY COUNCIL
UNDER THE DIRECTION OF THE
CITY CLERK

E. L. GRIMES COMPANY, PRINTERS, 122 PEARL STREET, BOSTON.

INAUGURAL ADDRESS

OF

HON. WENDELL D. ROCKWOOD

JANUARY 3, 1916

Ladies and Gentlemen:—

Cambridge has conferred upon me the highest honor that she has to bestow. I am about to succeed to the duties and responsibilities of an office that has been assumed successively by a long group of notable men.

For this great distinction I wish to thank the Citizens of Cambridge. I wish also to express my appreciation for the presence here of ladies and gentlemen who are so much interested in the welfare of our city.

Cambridge is a city of which we may well be proud. Its history dates back to ten years from the landing of the Pilgrims at Plymouth Rock. It has had a conspicuous part in every great event in our country's history. All about this spot is historic ground.

Though conscious of the influence that we have exerted on the affairs of men in every part of the continent, I believe as a whole we do not fully appreciate the important place Cambridge occupies in the history of the people.

But if we cultivate pride in reviewing the past we can fittingly determine at this beginning of the New Year to look proudly forward to the future.

Cambridge is the most wealthy city per capita in the Commonwealth. Unable to become a large city because of its limited area it still is fifth in population among the cities of Massachusetts.

In manufacturing and commerce we are making rapid strides. Our manufactured products last year amounted to over sixty millions of dollars ($60,000,000.00) from two hundred and fifty (250) establishments. We offer the greatest educational advantages in the world.

Our civil organizations are doing splendid work, bringing to-

gether the races from every corner of the earth and training them in the duties of citizenship. These and many other activities of our city give us reason to feel that the future is large with possibilities.

I know that it is the custom for the incoming Mayor to deliver an inaugural address.

While we are proud of our past and hopeful of the future our great duty lies with the present. Much dissatisfaction exists with our affairs as we find them today. We have been passing through a period of reckless and extravagant expenditures altogether out of proportion to the financial growth of the city. We have not had full value for money spent. We have drawn heavily on present resources and mortgaged those in the future. The only possible remedy is financial retrenchment.

Our revenue must be scientifically spent and scientifically accounted for. No public enterprise involving a large expenditure of money ought to be undertaken except what public safety or morals demand. It is my ambition to give Cambridge a business administration. This is a teeming and far-flung corporation; we are the officers, the people are the stockholders. Our campaign promises must now be made a constructive reality. We must produce dividends of public service or we must carry the brand of failure.

Never in the history of Cambridge has a City Council been entrusted with the grave responsibility that has been put in your hands. Remember we are to be measured by the public. Your Chief will be guided solely by what he sees is the public welfare. In this direction he will seek wisdom from on High that what ability God has given him may be wisely used. He asks your cooperation and support. The eyes of the people are on you as well as your Chief Executive, watching, waiting your purpose. No one can afford the risk of failure to measure up to the standard expected. You are to represent their interest, not yours. Study them carefully. The success of any administration is assured with a strong, constant public opinion behind it. We must make and keep this support.

I wish to say to the Council that the custom of presenting an inaugural address on accepting office has not seemed wise to me at this time. We have many problems to consider but the best approach is to consider them one by one as they present themselves. We have the duty of organizing a City Government.

ANNUAL REPORTS

REPORT OF CITY TREASURER

LETTER OF TRANSMITTAL.

City of Cambridge, Mass.

Office of the City Treasurer, April 1, 1916.

To the Honorable the City Council:—

In compliance with the provisions of Chapter 56 of the revised ordinances of 1892, amended to Nov. 8, 1899, compiled to Nov. 10, 1913, concerning "Annual reports of officers and Boards in charge of Departments," I respectfully submit herewith a detailed report of the receipts and expenditures of the public funds by the Treasury Department during the year ending March 31, 1916, including an account of all bonded and temporary loans negotiated in said year, also a detailed account of official fees received and reports of all trust funds in the care of the City Treasurer. In addition to the above, a report of the Commissioners of the Sinking Funds of the City, together with a report of the Committee on Finance is included.

Very respectfully,

HENRY F. LEHAN,
City Treasurer.

City of Cambridge in Account from April 1, 1915, to March

Dr.

To authorized payments charged to city accounts:—

Assessments:—	
Street Sprinkling—1913 abatements	$10 64
" " —1914 abatements	12 64
" " —1915 abatements	100 02
Moth Extermination—1914 abatements	2 56
" " —1915 abatements	7 44
Trustees of Cemetery Fund:—	
Perpetual Care	3,434 51
Interest	370,128 51
Interest on Water Loan	103,197 75
Licenses	84 20
Loans—Temporary	1,450,000 00
Municipal—Serial	1,500 00
Street—Serial	35,300 00
Water	400,000 00
Sewer—Construction Serial	500 00
Water—Serial	20,500 00
Sewer—Separate System	1,500 00
Schoolhouse—Serial	6,500 00
Building—Serial	5,500 00
Cambridge Bridge Special—Serial	400 00
Building	60,000 00
Street	60,000 00
School Teachers' Salary Increase	5,000 00
Municipal Hospital	3,000 00
Park—Serial	3,000 00
Sinking Funds:—	
Brookline Bridge	333 33
Cambridge Bridge	11,695 42
Cambridge Bridge—Special	616 00
Commercial Avenue Bridge	666 67
Water	119,655 69
General	155,919 50
Harvard Bridge	8,800 00
Improved Sewerage	8,778 00
Metropolitan Park Assessment	1,012 00
City of Cambridge—Acts of 1908	36,000 00
Hospital—Acts of 1905	5,625 00
Parks	25,666 66
Sewer Separate System	5,874 00
Charles River Basin	5,400 00
Playgrounds—Land	2,090 00
Amount carried forward	$2,917,810 54

31, 1916 (inclusive), WITH HENRY F. LEHAN, CITY TREASURER.

Cr.

Assessments:—	
Sewers	$4,346 17
Sidewalks	4,616 81
Street Sprinkling—1912	4 12
" " —1913	788 34
" " —1914	3,933 41
" " —1915	30,266 02
Moth Extermination—1912	28
" " —1913	38 97
" " —1914	350 27
" " —1915	1,528 14
Cemetery Department:—	
Burials	12,943 12
Sales of lots and graves	10,502 18
Trustees of Cemetery Fund:—	
Perpetual Care	3,434 51
Fourth of July Celebration	300 00
City Clerk's Department	1,403 00
Dog Licenses	3,039 12
Fire Department	163 12
City Messenger's Department:—	
Postage and Stationery	1,839 63
Electrical Department	31 02
Health Department	25,219 92
Modified Milk	708 48
Interest	34,110 78
Inspection of Animals	50 00
Libraries—Fines	1,187 52
Licenses	6,640 30
Law Department	1,014 05
Loans—Temporary	1,650,000 00
Street—Serial	164,500 00
Sewer—Construction Serial	15,000 00
Sewer—Separate System	15,000 00
Playground—Serial	25,000 00
Building—Serial	80,000 00
Cambridge Bridge—Serial	60,000 00
Park—Serial	30,000 00
Municipal Buildings	1,669 24
Hospital	280 00
Building Department:—	
Permits	4,276 75
Amount carried forward	$2,194,185 27

City of Cambridge in Account from April 1, 1915, to March

Dr.

Amount brought forward	$2,917,810 54
Taxes:—	
1915 Refunds	742 90
1915 abatements	36,834 10
1913 Abatements	7,319 34
1913 Refund	2,389 60
1914 Abatements	14,019 29
Tax—County	133,270 62
State	256,327 50
National Bank	2,237 80
Metropolitan Park	63,808 80
Metropolitan Sewer	112,675 22
Alewife Brook	5,028 52
Smoke Nuisance	476 58
Prevention of Fires	900 10
Charles River Basin	17,029 25
Charles River Bridge	25,109 38
Tax Lien Account	2,610 68
Water Department:—	
Abatements	4,669 26
Refunds	1,711 17
Mayor's Drafts	2,952,733 97
'ollectors' Rebates:—	
Tax 1909	41 91
Tax 1911	37 75
Tax 1912	3 00
Tax 1913	575 25
Tax 1914	2,556 76
Tax 1915	1,003 80
Old Department Bills	72 91
Total Payments	$6,561,996 00

Amount carried forward	$6,561,996 00

31, 1916 (inclusive), WITH HENRY F. LEHAN, CITY TREASURER.

Cr.

Amount brought forward	$2,194,185 27
Overseers of the Poor:—	
City Home	396 55
City Home Hospital	281 42
City Farm	2,079 80
Outdoor Relief	25,592 27
Park Department:—	
Construction and Lands	532 00
Maintenance General	10 00
Moth Extermination	155 30
Camb. Field and Shelter	195 28
Rindge Field and Shelter	119 42
Russell Field	630 94
Baths—Captain's Island	576 54
Police Department	1 00
Police and Court Fines	3,156 43
Premiums—City Bonds	4,756 73
Rent of Land—Harvard College	2,400 00
School Department	11,367 62
Sealer of Weights and Measures	722 70
Stadium Bridge	4,204 76
Sewer Department:—	
Maintenance	173 68
Construction General	2,000 00
Sinking Funds—Commissioners of	520,000 00
State Aid	12,619 00
Street Department:—	
Incinerator	900 00
Maintenance and repairs	1,851 15
Sidewalk Repairs	1,113 54
Concord Avenue	35,269 74
Sprinkling	58 84
House Offal	17,382 81
Mass. Avenue	645 00
Taxes—1909—Personal	306 60
1911—Polls	302 00
1911—Personal	362 18
1912—Polls	12 00
1912—Personal	134 64
1912—Real Estate	416 40
1913—Polls	1,030 00
1913—Personal	840 72
1913—Real Estate	56,153 21
Amount carried forward	$2,902,935 54

City of Cambridge in Account from April 1, 1915, to March

Dr.

Amount brought forward	$6,561,996 00
Cash balance in Treasury, Mar. 31, 1916.....	8,366 37
	$6,570,362 37

31, 1916 (inclusive), WITH HENRY F. LEHAN, CITY TREASURER.

Cr.

Amount brought forward	$2 902,935.54
Taxes—1914—Polls	8,250 00
1914—Personal	31,206 40
1914—Real Estate	.284,440 08
1915—Polls	31,740 00
1915—Personal	512,696 10
1915—Real Estate	2,059,414 66
Tax, National Bank	14,311 96
Corporation	171,231 88
Street Railway	60,759 19
Tax Lien Account	3,524 13
Treasury Department	5,383 48
Water Department:—	
Construction General	2,536 89
Detector Meters	3,833 40
Rates, Fines, etc.	416,209 00
Total receipts	$6,508,472 71
Cash Balance in Treasury, Mar. 31, 1915	61,889 66
	$6,570,362 37

TEMPORARY LOANS IN ANTICIPATION OF TAXES NEGOTIATED DURING THE YEAR ENDING MARCH 31, 1916

Date	Maturity	Amount	Discounted per annum
April 27, 1915.....	Oct. 12, 1915.....	$500,000 00	3% $6.25 premium
July 1, 1915.....	Dec. 1, 1915.....	250,000 00	2.46
Aug. 2, 1915.....	Nov. 1, 1915.....	250,000 00	2.34
Sept. 10, 1915.....	Jan. 5, 1916.....	200,000 00	2.34
Dec. 31, 1915.....	April 27, 1916.....	450,000 00	1.99 1.37 premium
Total		$1,650,009 00	

With the exception of the loan for $450,000.00 negotiated Dec. 31, 1915 and maturing April 27, 1916 all of the above loans were paid before the close of the financial year.

PARTICULARS CONCERNING BONDS NEGOTIATED DURING THE YEAR ENDING MARCH 31, 1916.

Date of Bonds	Amount	Loan	Years to Run	Rate	Purchaser	Price Paid
1915						
May 1.....	$7,500 00	Street.....	1500 annually for 5 years	4%	R. L. Day	$100.849
July 1.....	2,500 00	Street.....	500 annually for 5 years	4	"	100.849
July 1.....	12,500 00	Street.....	1250 annually for 10 years	4	"	100.849
July 1.....	25,000 00	Building.....	1250 annually for 20 years	4	"	100.849
July 1.....	55,000 00	Building.....	2750 annually for 20 years	4	"	100.849
July 1.....	15,000 00	Sewer.....	500 annually for 30 years	4	"	100.849
July 1.....	15,000 00	Sewer Sep. System.....	500 annually for 20 years	4	"	100.849
May 1.....	60,000 00	Camb. Bridge..	2000 annually for 30 years	4	"	100.849
July 1.....	25,000 00	Playground....	1000 annually for 20 years			100.849
			and 500 annually for 10 years	4	"	100.849
July 1.....	25,000 00	Park.....	1000 annually for 25 years	4	"	100.849
Oct. 1.....	17,000 00	Street.....	3400 annually for 5 years	4	E. M. Farnsworth	101.72
July 1.....	7,500 00	Street.....	750 annually for 10 years	4	"	101.72
Sept. 1.....	60,000 00	Street.....	6000 annually for 10 years	4	"	101.72
Oct. 1.....	5,000 00	Street.....	500 annually for 10 years	4	"	101.72
Nov. 1.....	2,500 00	Street.....	500 annually for 5 years	4	"	100.98
Nov. 1.....	5,000 00	Park.....	1000 annually for 5 years	4	"	100.98
Nov. 1.....	50,000 00	Street.....	5000 annually for 10 years	4	Adams & Company	102.17
Total.....	$389,500 00					

RECAPITULATION.

Bridge	$60,000 00
Building	80,000 00
Park	30,000 00
Playground	25,000 00
Sewer Construction	15,000 00
Sewer (Separate System)	15,000 00
Street	164,500 00
	$389,500 00

FEES.

During the year ending March 31, 1916, the Treasurer has received official fees amounting to $5,384.48, itemized as follows:

Tax Sale:—		
Preparation	$180 00	
Advertising	271 90	
Deeds	298 00	
Descriptions	17 00	
Posting	159 40	
Releases	73 00	
Certificates of liens	242 00	
Affidavits	19 25	
Composition work	22 00	
Taxes, summonses	2,101 93	
Services of department in collection of water rates, etc., Water Department	2,000 00	
		$5,384 48

These fees were all turned into the City Treasury as received.

REPORT OF TRUST FUNDS IN HANDS OF CITY TREASURER.

BRIDGE CHARITABLE FUND.

Amount of Fund March 31, 1915		$2,614 99
Interest to March 31, 1916	$105 62	
Two-thirds of income paid to Overseers of the Poor	70 42	
One-third of income paid to fund		35 20
Balance deposited in Central Trust Company		$2,650 19

CEMETERY TRUST FUND.

Amount of Bonds in fund, March 31, 1915	$108,150 00	
Amount of Bonds purchased to March 31, 1916	2,000 00	
Amount of Bonds in fund, April 1, 1916	$110,150 00	
Cash on hand, April 1, 1916	$499 19	
Cash received from proprietors of lots in Cambridge Cemetery for perpetual care	3,434 51	
Cash received for interest on investments	4,175 48	
		$8,109 18

Cash paid to Cemetery Trustees for care of lots placed in perpetual care	$4,154 48	
Cash paid for bonds purchased	1,849 25	
Cash paid for accrued interest	21 00	
	$6,024 73	
Balance cash on hand, March 31, 1916	2,084 45	
		$8,109 18

Assets of the two funds, March 31, 1916.

Registered bonds of the City of Cambridge amounting to	$110,150 00	
Deposited in Harvard Trust Company	2,084 45	
		$112,234 45
Funds for perpetual care	$111,842 45	
Funds for deeds in trust	392 00	
		$112,234 45

TAILINGS ACCOUNT.

This fund consists of various amounts of money due on pay rolls and sundry drafts, which have remained in the hands of the Treasurer awaiting payment to persons properly entitled to the same.

The amount of the fund March 31, 1915, was	$4,467 36	
Interest on deposit to March 31, 1916	110 45	
		$4,577 81
March 31, 1916, balance on deposit at Harvard Trust Company		$4,577 81

SARAH E. RUSSELL FUND.

This is a fund bequeathed by the late Sarah E. Russell of Cambridge, in 1898, "the income therefrom to be annually expended in or towards providing a Christmas tree or Christmas gifts and entertainments for the inmates at the time, of the Cambridge Almshouse.

The amount of the bequest was $814.41, and was deposited in the Cambridgeport Savings Bank, where it now remains.

The interest accumulations, amounting to $32.88 for the year, have been paid to Mr. C. E. Goodrow, Superintendent of the City Home, and were used as stipulated in the will of Mrs. Russell.

REPORT OF THE WM. PENN HARDING FUND.

March 31, 1915, deposited in East Cambridge Savings Bank....	$1,000 00
The interest on said fund amounting to $45.49 was paid to the trustees of the Public Library in accordance with the provisions of the gift.	
The pass book of the East Cambridge Savings Bank shows that on March 31, 1916, the amount on deposit was	$1,000 00

JOHN WESLEY FREESE FUND.

This is a fund, bequeathed by the late John Wesley Freese, of the sum of eighty-nine and 36-100 dollars, this amount being 89.36 per cent. of the total amount (being so reduced by expenses) of legacy of one hundred dollars left to the City of Cambridge by said Freese under his will, for the Houghton School, and to be used in accordance with terms of said will, a copy of the seventh clause of which is as follows:—

> "I will that one hundred dollars be given to the Houghton School to be known as the John Wesley Freese Fund. I desire this fund to accumulate for twenty years by the addition of the whole interest for that time. After that I desire that no more than three-fourths of the interest be expended (and always for books for the school library and for works of art for the school) to the end that the Fund shall constantly increase in size and usefulness."

Interest on fund to March 31, 1916	$3 60

HOPKINS FUND.

Balance April 1, 1915		$1,829 08
Received interest on deposits		58 59
Received from Treasurer of Hopkins Funds		806 71
		$2,694 38
Paid to Stephen A. Freeman, prize	$75 00	
Hester C. Sharkey, prize	75 00	
John Fahey, prize	100 00	
Mary Haley, prize	100 00	
Jessie McGregor Norman, prize	75 00	
Ralph A. Cartwright, prize	75 00	
School Dept. for Tuition	40 00	
Paid on orders of School Dept. for supplies.....	344 61	
	$884 61	
Balance March 31, 1916, Harvard Trust Co.	1,809 77	
		$2,694 38

City Auditor's statement of provisions of Section 1, Chapter 322, Acts of 1904.

Under the provisions of Section 1, Chapter 322, Acts of 1904, I hereby certify that I have this day examined the accounts, vouchers and securities belonging to the within Trust Funds held for public use and find them to be correct and in excellent condition.

Attest:

CHARLES H. THURSTON,
City Auditor.

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS OF THE CITY

To the Honorable, the City Council:—

The Commissioners of the several sinking funds of the city herewith submit their annual report, covering the year ending March 31, 1916. Our report shows the condition of the sinking funds under two divisions; first, municipal; second, water.

The following is the condition of the Municipal Loan Fund:—

Dr.

The amount of the Fund, March 31, 1915	$3,191,173 89	
Received from City of Cambridge the annual bonded requirements as appropriated for the several loans	268,476 58	
Interest received on invested funds	135,320 68	
Discount received on bonds purchased	10,391 92	
		$3,605,363 07

Cr.

Paid to City Treasurer on account of Cambridge debt maturing	$120,000 00	
Paid interest accrued on bonds purchased	7,389 15	
Paid premium on bonds purchased	12,703 43	
Leaving total amount of Fund, March 31, 1916	3,465,270 49	
		$3,605,363 07

The following is the condition of the Water Loan Fund:—

Dr.

The amount of Fund, March 31, 1915	$1,900,141 93	
Received from City of Cambridge amount of annual requirements for 1915 from Water Rates	87,255 00	
Received interest on investments	62,396 94	
Received surplus from water rates	32,400 69	
		$2,082,194 56

Cr.

Paid to Municipal Account, interest on loan	$509 09
Paid City Treasurer on account of water debt maturing	400,000 00
Leaving total amount of Fund, March 31, 1916 ..	1,681,685 47
	$2,082,194 56

The following are the investments belonging to the Municipal Loan Fund:—

Cambridge	City	bonds	4s	July	1, 1916	$170,000 00
"	"	"	4	Aug.	1, 1916	90,000 00
"	"	"	4½	Sept.	1, 1916	1,300 00
"	"	"	4	Oct.	1, 1916	115,000 00
"	"	"	3½	July	1, 1917	100,000 00
"	"	"	4½	Sept.	1, 1917	1,300 00
"	"	"	3½	Nov.	1, 1917	65,000 00
"	"	"	4	Jan.	1, 1918	10,000 00
"	"	"	3½	May	2, 1918	50,000 00
"	"	"	3½	Aug.	1, 1918	140,000 00
"	"	"	4½	Sept.	1, 1918	1,300 00
"	"	"	4	Mar.	1, 1919	16,000 00
"	"	"	4½	Sept.	1, 1919	1,300 00
"	"	"	3½	Nov.	1, 1919	18,000 00
"	"	"	4½	Sept.	1, 1920	800 00
"	"	"	3½	Nov.	1, 1920	5,000 00
"	"	"	4	July	1, 1921	19,000 00
"	"	"	4½	Sept.	1, 1921	800 00
"	"	"	3½	Nov.	1, 1921	27,000 00
"	"	"	3½	July	1, 1922	9,000 00
"	"	"	4½	Sept.	1, 1922	800 00
"	"	"	3½	Nov.	1, 1922	3,000 00
"	"	"	4½	Sept.	1, 1923	800 00
"	"	"	4	Feb.	1, 1924	15,000 00
"	"	"	3½	Apr.	1, 1924	27,000 00
"	"	"	4	Apr.	1, 1924	207,000 00
"	"	"	4½	Sept.	1, 1924	800 00
"	"	"	3½	Nov.	1, 1924	27,000 00
"	"	"	3½	May	1, 1925	47,500 00
"	"	"	3½	Aug.	1, 1925	20,000 00
"	"	"	4	Oct.	1, 1926	40,000 00
"	"	"	4	Nov.	1, 1926	6,000 00
"	"	"	4	Sept.	1, 1927	5,000 00
"	"	"	4	Nov.	1, 1927	10,000 00
"	"	"	3½	Nov.	1, 1929	42,000 00
"	"	"	3½	Aug.	1, 1931	10,000 00
"	"	"	4	Nov.	1, 1937	10,000 00
"	"	"	3½	Oct.	1, 1941	25,000 00
"	"	"	3½	Jan.	1, 1943	6,000 00
Lynn	"	"	4	May	1, 1916	5,000 00
West End St. Ry.		"	4	May	1, 1916	8,000 00
Pittsfield	City	"	4	June	1, 1916	10,000 00
Brockton	"	"	3½	July	1, 1916	5,000 00
Amount carried forward						$1,371,700.00

Amount brought forward $1,371,700 00

Boston & Lowell R. R.		"	4	July	1, 1916	10,000 00
Fitchburg R. R.		"	4	July	1, 1916	10,000 00
Worcester	City	"	4	July	1, 1916	35,000 00
Alleghany, Penn.	"	"	3½	Oct.	1, 1916	22,000 00
Ipswich	Town	"	4	Oct.	1, 1916	1,000 00
Boston	City	"	3½	Jan.	1, 1917	50,000 00
Watertown	Town	"	3½	Jan.	1, 1917	9,000 00
West End St. Ry.		"	4	Feb.	1, 1917	54,000 00
New Bedford	City	"	4	Mar.	1, 1917	10,000 00
Boston	"	"	3½	July	1, 1917	1,000 00
Springfield	"	"	3½	July	1, 1917	4,000 00
Beverly	"	"	3½	July	1, 1917	4,000 00
Bennington	Town	"	4	July	1, 1917	1,000 00
Ipswich	"	"	4	Oct.	1, 1917	1,000 00
Watertown	"	"	3½	Jan.	1, 1918	9,000 00
Brockton	City	"	3½	Feb.	1, 1918	5,000 00
Cleveland, Ohio	"	"	4½	Feb.	1, 1918	13,000 00
Marlborough	"	"	4	July	1, 1918	10,000 00
Boston	"	"	4	Jan.	1, 1918	87,000 00
Milwaukee	"	"	4½	July	1, 1918	14,000 00
Hyde Park	Town	"	4	July	1, 1918	4,000 00
Medford	City	"	4	Aug.	1, 1918	50,000 00
Milton	Town	"	3½	Aug.	1, 1918	4,000 00
West End St. Ry.		"	5	Aug.	1, 1918	30,000 00
Ipswich	Town	"	4	Oct.	1, 1918	1.000 00
Chicago	City	"	3½	Oct.	1, 1918	25,000 00
Minneapolis	"	"	4	Dec.	15, 1918	5,000 00
Newport, R. I.	"	"	4½	Dec	15, 1918	8,000 00
Watertown	Town	"	3½	Jan.	1, 1919	9,000 00
Lynn	City	"	4	Jan.	1, 1919	17,000 00
Brockton	"	"	3½	Feb.	1, 1919	5,000 00
Cleveland	"	"	4½	Feb.	1, 1919	13,000 00
Akron, Ohio	"	"	5	Apr.	1, 1919	8,500 00
Boston	"	"	3½	July	1, 1919	8,000 00
Milwaukee	"	"	4½	July	1, 1919	14,000 00
Peabody	Town	"	4	July	16, 1919	3,000 00
Milton	"	"	3½	Aug.	1, 1919	1,000 00
Boston	City	"	3½	Oct.	1, 1919	1,000 00
Ipswich	Town	"	4	Oct.	1, 1919	1,000 00
Middlesex County		"	4	Dec.	1, 1919	9,000 00
Watertown	Town	"	3½	Jan.	1, 1920	9,000 00
Newton	City	"	4	Apr.	1, 1920	14,000 00
Stoughton	Town	"	4	June	1, 1920	2,000 00
Concord & Montreal R. R.			4	June	1, 1920	125,000 00
Waltham	City	bonds	3½	July	1, 1920	4,000 00
Penobscot Shore Line R. R.			4	Aug.	1, 1920	25,000 00
Ipswich	Town	bonds	4	Oct.	1, 1920	1,000 00
Newport, R. I.	City	"	4½	Dec.	15, 1920	8,000 00
Watertown	Town	"	3½	Jan.	1, 1921	9,000 00
Brockton	City	"	3½	Feb.	1, 1921	5,000 00
Hudson	Town	"	4	May	1, 1921	3,000 00
Pittsburg, Penn.	City	"	3½	Apr.	1, 1921	20,000 00
Peabody	Town	"	4	July	16, 1921	3,000 00
Lawrence	City	"	4	Aug.	1, 1921	8,000 00

Amount carried forward $2,174 200 00

Amount brought forward						$2,174 200 00
Troy, N. Y.	"	"	4	Sept.	1, 1921	15,000 00
Ipswich	Town	"	4	Oct.	1, 1921	1,000 00
Weymouth	"	"	4	Nov.	1, 1921	1,000 00
Portland, Ore.	City	"	5	Jan.	1, 1922	3,000 00
Portland, Ore.	City	"	5	Jan.	1, 1922	1,250 00
Watertown	Town	"	3½	Jan.	1, 1922	9,000 00
Brockton	City	"	3½	Jan.	1, 1922	5,000 00
Gardner	Town	"	4	Feb.	1, 1922	5,000 00
Reading	Town	"	4	June	1, 1922	5,000 00
Boston	City	"	3½	June	1, 1922	53,000 00
Barre, Vt.	"	"	3½	July	1, 1922	24,000 00
Gardner, Mass.	Town	"	4	July	1, 1922	2,500 00
Cleveland, Ohio	City	"	4½	Feb.	1, 1922	13,000 00
Troy, N. Y.	"	"	4	Sept.	1, 1922	15,000 00
Ipswich	Town	"	4	Oct.	1, 1922	1,000 00
Weymouth	"	"	4	Nov.	1, 1922	5,000 00
Cleveland, Ohio	"	"	4½	Feb.	1, 1923	13,000 00
New Bedford	"	"	3½	Apr.	1, 1923	3,000 00
Revere	Town	"	3½	May	1, 1923	12,000 00
Fitchburg	City	"	4	May	1, 1923	6,000 00
Watertown	Town	"	4	May	1, 1923	3,000 00
Gardner	"	"	4	June	1, 1923	1,250 00
Boston	City	"	3½	June	1, 1923	66,000 00
Reading	Town	"	4	June	1, 1923	5,000 00
Portland, Ore.	City	"	5	July	1, 1923	6,000 00
Portland, Ore.	City	"	5	July	1, 1923	1,000 00
Gardner, Mass.	Town	"	4	July	1, 1923	2,500 00
Medford	City	"	4	July	1, 1923	2,000 00
Lawrence	"	"	4	July	1, 1923	2,000 00
Medford	"	"	4	Aug.	1, 1923	6,000 00
Jersey, N. J.	"	"	5	Sept.	1, 1923	50,000 00
Ipswich	Town	"	4	Oct.	1, 1923	1,000 00
Wakefield	"	"	3½	Nov.	1, 1923	4,000 00
Weymouth	"	"	4	Nov.	1, 1923	5,000 00
Brookline	"	"	3½	Jan.	1, 1924	2,000 00
Cleveland, Ohio	City	"	4	Feb.	1, 1924	13,000 00
Old Colony R. R.		"	4	Feb.	1, 1924	5,000 00
Revere	Town	"	3½	Apr.	1, 1924	12,000 00
Watertown	Town	"	4	May	1, 1924	3,000 00
Greenwich, Conn.	City	"	4½	May	1, 1924	2,000 00
Malden	"	"	4	May	2, 1924	9,000 00
Gardner	Town	"	4	July	1, 1924	2,500 00
Fall River	City	"	3½	July	1, 1924	10,000 00
Akron, Ohio	"	"	5	Sept.	1, 1924	30,000 00
Akron, Ohio	"	"	5½	Sept.	1, 1924	50,000 00
Marlborough	"	"	4	Sept.	1, 1924	10,000 00
Ipswich	Town	"	4	Oct.	1, 1924	1,000 00
Wakefield	"	"	3½	Nov.	1, 1924	4,000 00
Weymouth	"	"	4	Nov.	1, 1924	5,000 00
Norwich	City	"	3½	Jan.	1, 1925	26,000 00
Cleveland, Ohio	"	"	4½	Feb.	1, 1925	13,000 00
Toledo, Ohio	"	"	4½	Feb.	1, 1925	40,000 00
Revere	Town	"	4	Apr.	1, 1925	6,000 00
Winchester	"	"	4	May	1, 1925	6,000 00
Amount carried forward						$2,771,200 00

Amount brought forward					$2,771,200 00
Cranston, R. I.	"	"	4½	Sept. 15, 1925	30,000 00
Ipswich	"	"	4	Oct. 1, 1925	1,000 00
Old Colony R. R.		"	4	Dec. 1, 1925	65,000 00
Cleveland, Ohio	City	"	4½	Feb. 1, 1926	13,000 00
Revere	Town	"	4	Apr. 1, 1926	6,000 00
Revere		"	"	3½	Apr. 1, 1926	2,000 00
Quincy	City	"	4	May 1, 1926	1,000 00
Providence, R. I.	"	"	4	June 1, 1926	5,000 00
Winchester	Town	"	4	June 1, 1926	5,000 00
Ipswich	"	"	4	Oct. 1, 1926	1,000 00
Weymouth	"	"	4	Nov. 1, 1926	3,000 00
Cleveland, Ohio	City	"	4½	Dec. 1, 1926	25,000 00
Cleveland, Ohio	City	"	4½	Feb. 1, 1927	13,000 00
Stamford, Conn.	Town	"	4	Feb. 1, 1927	5,000 00
Fitchburg R. R.		"	4	Mar. 1, 1927	40,000 00
Revere	City	"	4	Apr. 1, 1927	6,000 00
Woonsocket, R. I.	"	"	4	May. 1, 1927	50,000 00
Taunton	"	"	4	June 1, 1927	5,000 00
Arlington	Town	"	4	Oct. 1, 1927	5,000 00
Cleveland	City	"	4½	Dec. 1, 1927	20,000 00
Cleveland	"	"	4½	Dec. 1, 1927	5,000 00
Cleveland	"	"	4½	Feb. 1, 1928	13,000 00
Toledo, Ohio	"	"	4½	Sept. 1, 1928	33,000 00
Taunton	"	"	4	Dec. 1, 1928	3,000 00
Minneapolis	"	"	3½	Jan. 1, 1929	20,000 00
Cleveland	"	"	4½	Feb. 1, 1929	13,000 00
Cleveland	"	"	4½	Feb. 1, 1930	13,000 00
Minneapolis, Minn.	"	"	4¾	July 1, 1930	5,000 00
Minneapolis, Minn.	"	"	4¾	July 1, 1931	20,000 00
Augusta, Me. Water Dist.		"	4	Aug. 1, 1934	10,000 00
Minneapolis Sault Ste. Marie and Atlantic R. R. Co.			4	Jan. 1, 1926	30,000 00
Chicago and Northwestern R. R.			4	Aug 15, 1926	50,000 00
					$3,287,200 00

The following are the investments belonging to the water Loan Fund:—

Cambridge	City	bonds	4	April 1, 1916	10,000 00
"	"	"	3½	May 1, 1916	11,500 00
"	"	"	4	Oct. 1, 1916	92,100 00
"	"	"	4	Mar. 1, 1917	500 00
"	"	"	3½	April 1, 1917	20,000 00
"	"	"	3½	May 1, 1917	12,500 00
"	"	"	3½	Dec. 1, 1917	40,000 00
"	"	"	4	Mar. 1, 1918	500 00
"	"	"	3½	May 2, 1918	100,000 00
"	"	"	4	July 1, 1918	1,000 00
"	"	"	4	Sept. 1, 1918	1,000 00
Amount carried forward					$289,100 00

Amount brought forward						$289,100 00
Cambridge	City	Bonds	3½	Nov. 1, 1918	50,000 00	
"	"	"	4	Mar. 1, 1919	8,500 00	
"	"	"	3½	May 1, 1919	12,500 00	
"	"	"	3½	Nov. 1, 1919	20,000 00	
"	"	"	4	Mar. 1, 1920	500 00	
"	"	"	3½	May 1, 1920	12,500 00	
"	"	"	4	Nov. 1, 1920	5,000 00	
"	"	"	4	Mar. 1, 1921	500 00	
"	"	"	3½	May 1, 1921	12,500 00	
"	"	"	3½	July 1, 1921	50,000 00	
"	"	"	4	July 1, 1921	1,000 00	
"	"	"	4	Mar. 1, 1922	500 00	
"	"	"	3½	May 1, 1922	12,500 00	
"	"	"	3½	July 1, 1922	75,000 00	
"	"	"	4	Mar. 1, 1923	500 00	
"	"	"	3½	May 1, 1923	12,500 00	
"	"	"	3½	Oct. 1, 1923	25,000 00	
"	"	"	4	Feb. 1, 1924	36,000 00	
"	"	"	4	Mar. 1, 1924	500 00	
"	"	"	4	April 1, 1924	1,000 00	
"	"	"	3½	April 1, 1924	23,000 00	
"	"	"	3½	May 1, 1924	17,500 00	
"	"	"	4	Mar. 1, 1925	500 00	
"	"	"	4	Mar. 1, 1926	500 00	
"	"	"	4	Mar. 1, 1927	500 00	
"	"	"	4	June 1, 1927	1,000 00	
"	"	"	4	Mar. 1, 1928	500 00	
"	"	"	4	Mar. 1, 1929	500 00	
"	"	"	4	Mar. 1, 1930	500 00	
"	"	"	4	Mar. 1, 1931	500 00	
"	"	"	4	Mar. 1, 1932	500 00	
"	"	"	4	Mar. 1, 1933	500 00	
"	"	"	3½	Apr. 1, 1933	1,000 00	
"	"	"	3½	Sept. 1, 1937	3,000 00	
Revere	Town	"	3½	Apr. 1, 1916	6,000 00	
Weymouth	"	"	3½	May 1, 1916	2,500 00	
Holyoke	City	"	3½	May 1, 1916	7,500 00	
West End St. Ry.		"	4	May 1, 1916	4,000 00	
Springfield	City	"	3½	July 1, 1916	3,500 00	
Northampton	"	"	3½	July 1, 1916	2,000 00	
Somerville	"	"	4	July 1, 1916	8,000 00	
Beverly	"	"	3½	July 1, 1916	5,000 00	
Salem	"	"	3½	Sept. 1, 1916	5,000 00	
Gloucester	"	"	3½	Oct. 1, 1916	10,000 00	
Boston	"	"	3½	Jan. 1, 1917	20,000 00	
Milwaukee	"	"	4½	Jan. 1, 1917	14,000 00	
West End St. Ry. Co.		"	4	Feb. 1, 1917	8,000 00	
Brockton	City	"	3½	Feb. 1, 1917	4,000 00	
Wellesley	Town	"	4	Mar. 1, 1917	2,000 00	
Waltham	City	"	4	April 1, 1917	24,000 00	
Revere	Town	"	3½	April 1, 1917	12,000 00	
Weymouth	"		3½	May 1, 1917	2,500 00	
Holyoke	City	"	3½	May 1, 1917	7,500 00	
Newburyport	"	"	3½	June 1, 1917	12,000 00	
Amount carried forward						$835,100 00

Amount brought forward						$835,100 00
New London	"	"	4	July	1, 1917	5,000 00
Northampton	"	"	3½	July	1, 1917	6,000 00
Salem	"	"	3½	Sept.	1, 1917	5,000 00
Gloucester	"	"	3½	Oct.	1, 1917	10,000 00
New Bedford	"	"	4½	Oct.	1, 1917	75,000 00
Hallowell, Me.	"	"	4	Jan.	1, 1918	15,000 00
Milwaukee	"	"	4½	Jan.	1, 1918	14,000 00
New Bedford	"	"	3½	Feb.	1, 1918	5,000 00
Wellesley	Town	"	4	Mar.	1, 1918	1,000 00
Newport, R. I.	City	"	4½	Mar.	2, 1918	2,000 00
Weymouth	Town	"	3½	May	1, 1918	2,500 00
Holyoke	City	"	3½	May	1, 1918	7,500 00
Mansfield	Town	"	4	May	1, 1918	10,000 00
Salem	City	"	3½	Sept.	1, 1918	5,000 00
Gloucester	"	"	3½	Oct.	1, 1918	10,000 00
Newport, R. I.	"	"	4½	Mar	2, 1919	5,000 00
Weymouth	Town	"	3½	May	1, 1919	2,500 00
Newburyport	City	"	3½	June	1, 1919	11,000 00
Malden	"	"	4	July	1, 1919	5,000 00
Salem	"	"	3½	Sept.	1, 1919	5,000 00
Troy	"	"	4	Sept.	1, 1919	15,000 00
Boston	"	"	3½	Oct.	1, 1919	6,000 00
Newport, R. I.	"	"	4½	Mar.	2, 1920	4,000 00
Revere	Town	"	3½	April	1, 1920	2,000 00
Beverly	"	"	4	April	1, 1920	4,000 00
Weymouth	"	"	3½	May	1, 1920	2,500 00
Holyoke	City	"	3½	May	1, 1920	5,000 00
Minneapolis, Minn.	"	"	4	June	1, 1920	19,000 00
Lawrence	"	"	4	Aug.	1, 1920	8,000 00
Penobscot Shore Line R.R. Co.			4	Aug.	1, 1920	25,000 00
Fitchburg R. R. Co.	bonds		3½	Oct.	1, 1920	50,000 00
Natick	Town	"	3½	Oct.	1, 1921	5,000 00
Lynn	City	"	4	Jan.	1, 1922	10,000 00
Newport, R. I.	"	"	4½	Mar.	2, 1922	3,000 00
Revere	Town	"	3½	April	1, 1922	7,000 00
Lawrence	City	"	4	Aug.	1, 1922	4,000 00
Natick	Town	"	3½	Oct.	1, 1922	8,000 00
Newport, R. I.	City	"	4½	Mar.	2, 1923	3,000 00
Lynn	"	"	4	April	1, 1923	25,000 00
Quincy	"	"	4	May	1, 1923	2,000 00
Natick	Town	"	3½	Oct.	1, 1923	7,000 00
Newton	City	"	4	Jan.	1, 1924	2,000 00
Old Colony R. R.		"	4	Feb.	1, 1924	3,000 00
Quincy	City	"	4	May	1, 1924	1,000 00
Rochester	"	"	3½	July	1, 1924	35,000 00
Lewiston, Me.	"	"	4	July	1, 1924	23,000 00
Salem	"	"	3½	Sept.	1, 1924	3,000 00
Natick	Town	"	3½	Oct,	1, 1924	5,000 00
Central Falls, R. I.	City	"	4	Dec.	1, 1924	5,000 00
Quincy	"	"	4	May	1, 1925	2,000 00
Salem	"	"	3½	Sept.	1, 1925	5,000 00
Leominster	"	"	4	Oct.	1, 1925	29,000 00
Central Falls, R. I.	"	"	4	Dec.	1, 1925	10,000 00
Quincy	"	"	4	May	1, 1926	3,000 00
Amount carried forward						$1,377,100 00

Amount brought forward						$1,377,100 00
Burlington, Vt.	"	"	4	July	1, 1926	10,000 00
Central Falls, R. I.	"	"	4	Dec.	1, 1926	10,000 00
Quincy	"	"	4	May	1, 1927	3,000 00
Attleborough	Town	"	4	July	1, 1927	10,000 00
Quincy	City	"	4	May	1, 1928	3,000 00
Winchester	Town	"	4	June	1, 1928	6,000 00
Quincy	City	"	4	May	1, 1929	3,000 00
Fall River	"	"	3½	Nov.	1, 1929	75,000 00
Quincy	"	"	4	May	1, 1930	3,000 00
Quincy	"	"	4	May	1, 1931	3,000 00
Quincy	"	"	4	May	1, 1932	1,000 00
Newton	"	"	4	Aug.	1, 1935	2,000 00
Newton	"	"	4	July	1, 1936	11,000 00
Grafton	Town	"	3½	July	1, 1937	1,000 00
Old Colony R. R. Co.		"	4	Jan.	1, 1938	25,000 00
Grafton	Town	"	3½	July	1, 1938	2,000 00
Grafton	"	"	3½	July	1, 1939	2,000 00
						$1,547,100 00

MUNICIPAL FUND ACCOUNT.

BOND ACCOUNT

Amount of bonds in fund March 31, 1915	$3,002,000 00	
Amount of bonds purchased to March 31, 1916	839,500 00	
	$3,841,500 00	
Less amount of bonds matured	554,300 00	
Amount of bonds in fund March 31, 1916		$3,287,200 00

CASH ACCOUNT

Dr.

Cash on hand March 31, 1915	$189,173 89	
Received from City of Cambridge annual requirements	268,476 58	
Received from interest on investments	135,320 68	
Received from matured bonds	483,300 00	
Received from discount on bonds purchased below par	8,403 92	
Received from notes sold	72,988 00	
	$1,157,663 07	

Cr.

Cash paid for bonds purchased	$839,500 00	
Cash paid for premiums on bonds purchased	12,703 43	
Cash paid for accrued interest on bonds purchased	7,389 15	
Cash paid City Treasurer for Municipal Debt maturing during the year	120,000 00	
Balance cash on hand March 31, 1916	178,070 49	178,070 49
	$1,157,663 07	
Total amount of fund March 31, 1916		$3,465,270 49

WATER LOAN FUNDS.

BOND ACCOUNT

Amount of bonds in fund March 31, 1915	$1,664,800 00	
Amount of bonds matured during the year	117,700 00	
Amount of bonds in fund March 31, 1916		$1,547,100 00

CASH ACCOUNT

Dr.

Cash on hand March 31, 1915	$235,341 93	
Received from City of Cambridge for annual appropriation	87,255 00	
Received from water department, surplus receipts from rates	32,400 69	
Received from interest on investments	62,396 94	
Received from matured bonds	117,700 00	
		$535,094 56

Cr.

Paid City of Cambridge to meet water debt maturing	$400,000 00	
Paid interest to Municipal Fund	509 09	
Balance cash on hand March 31, 1916	134,585 47	
	$535,094 56	
Total amount of fund March 31, 1916		$1,681,685 47

HENRY F. LEHAN,
Treasurer of Funds.

The committee appointed to audit the accounts of the Treasurer of the funds reports that his accounts are correct and properly vouched and his books are well kept. The bonds and coupons have been examined and checked up and found correct. The interest, bond, and cash transactions of the Treasurer during the year have been carefully computed independently of his books and their correctness thereby proved.

THOMAS F. ROYLE,
JOHN J. QUINLAN,
Auditing Committee.

Municipal bonds to the amount of $389,500.00 have been issued during the year, all of which were serial bonds. Municipal bonds amounting to $120,000.00 became due during the year and were paid from the sinking fund, and $62,200.00 were paid from taxation. The total amount of the funded municipal debt exclusive of the water debt now outstanding is $9,549,250.00 of which $1,069,950.00 are serial bonds. Deducting the present amount at par value of the municipal sinking fund $3,465,270.49 leaves the net amount of the municipal funded debt March 31, 1916, $6,063,979.51 a net decrease of $66,796.60. There will be due to this fund from taxation during the next municipal year the sum of $263,744.83. During this coming year municipal bonds to the amount of $321,000.00 will become due and be paid from this fund. There will also be payable from taxation the sum of $99,150.00 serial bonds.

No water bonds have been issued during the year. Water bonds amounting to $400,000.00 became due during the year and were paid from this fund and serial bonds amounting to $20,500.00 were paid from water revenue. The total amount of the water debt now outstanding is $2,501,600.00 of which $286,500.00 are serial bonds. Deducting the par value of the water loan sinking fund $1,681,685.41, leaves a net funded water debt March 31, 1916 of $819,914.53, a decrease of $202,043.94. There will be due this fund from the water rates during the next financial year $72,255.00 During the coming year water bonds to the amount of $665,100.00 will become due and be paid from the fund. There will also be payable from water revenue the sum of $20,500.00 serial bonds.

GEORGE G. WRIGHT,
THOMAS F. ROYLE,
JAMES O'BRIEN,
HERBERT M. BRIDEY,
JOHN J. QUINLAN,
EDWARD N. MANNING,

Commissioners of Sinking Funds of City of Cambridge.

The bonded City Debt matures as follows:—

Issued serially, provided for in the annual tax levy.

May	1, 1916,	Street . . .	4s	$1,500 00
May	1, 1916,	Cambridge Bridge .	4s	2,000 00
July	1, 1916,	Street . . .	4s	2,500 00
July	1, 1916,	Building . . .	4s	4,000 00
July	1, 1916,	Sewer . . .	4s	500 00
July	1, 1916,	Sewer Sep. System .	4s	500 00
July	1, 1916,	School House . .	4½s	3,250 00
July	1, 1916,	Building . . .	4½s	5,500 00
July	1, 1916,	Street . . .	4½s	9,300 00
July	1, 1916,	Street . . .	4s	500 00
July	1, 1916,	Street . . .	4s	3,000 00
July	1, 1916,	Street . . .	4s	4,800 00
July	1, 1916,	Street . . .	4s	3,500 00
July	1, 1916,	Bridge . . .	4s	400 00
July	1, 1916,	Sewer Sep. System .	4s	1,000 00
July	1, 1916,	Park . . .	4s	1,000 00
July	1, 1916,	Street . . .	4s	500 00
July	1, 1916,	Playground . .	4s	1,500 00
July	1, 1916,	Park . . .	4s	1,000 00
Aug.	1, 1916,	Street . . .	4s	12,000 00
Sept.	1, 1916,	Street . . .	4s	6,000 00
Sept.	1, 1916,	Street . . .	4½s	1,300 00
Sept.	1, 1916,	Hospital . . .	4½s	3,000 00
Sept.	1, 1916,	Park . . .	3½s	2,000 00
Oct.	1, 1916,	Street . . .	4s	3,900 00
Nov.	1, 1916,	Street . . .	4s	5,500 00
Nov.	1, 1916,	Park . . .	4s	1,000 00
Dec.	1, 1916,	Street . . .	4s	700 00
Dec.	1, 1916,	Municipal . . .	4s	1,000 00
Dec.	1, 1916,	Street . . .	4s	400 00
Dec.	1, 1916,	Sewer . . .	4s	500 00
Jan.	1, 1917,	Sewer . . .	4s	500 00
Jan.	1, 1917,	School House . .	4s	3,250 00
Feb.	1, 1917,	Street . . .	4s	600 00
Feb.	1, 1917,	Building (School House)	4s	500 00
Mar.	1, 1917,	School . . .	4s	5,000 00
Mar.	1, 1917,	Sewer . . .	4s	500 00
Mar.	1, 1917,	Hospital . . .	4s	4,500 00
Mar.	1, 1917,	Street . . .	4s	3,000 00
Mar.	1, 1917,	Building (Hospital) .	4s	2,000 00
May	1, 1917,	Street . . .	4s	1,500 00
May	1, 1917,	Cambridge Bridge .	4s	2,000 00
July	1, 1917,	Street . . .	4s	2,500 00
July	1, 1917,	Building . . .	4s	4,000 00
July	1, 1917,	Sewer . . .	4s	500 00
July	1, 1917,	Sewer Sep. System .	4s	500 00
July	1, 1917,	Playground . .	4s	1,500 00
July	1, 1917,	Park . . .	4s	1,000 00
July	1, 1917,	Street . . .	4½s	9,300 00
July	1, 1917,	School House . .	4½s	3,250 00
July	1, 1917,	Building . . .	4½s	5,500 00

Amount carried forward $134,950 00

Amount brought forward				$134,950 00
July	1, 1917,	Street	4s	500 00
July	1, 1917,	Street	4s	3,000 00
July	1, 1917,	Street	4s	4,800 00
July	1, 1917,	Street	4s	3,500 00
July	1, 1917,	Bridge	4s	400 00
July	1, 1917,	Sewer Sep. System	4s	1,000 00
July	1, 1917,	Park	4s	1,000 00
July	1, 1917,	Street	4s	500 00
Aug.	1, 1917,	Street	4s	12,000 00
Sept.	1, 1917,	Street	4s	6,000 00
Sept.	1, 1917,	Street	4½s	1,300 00
Sept.	1, 1917,	Hospital	4½s	3,000 00
Sept.	1, 1917,	Park	3½s	2,000 00
Oct.	1, 1917,	Street	4s	3,900 00
Nov.	1, 1917,	Street	4s	5,500 00
Nov.	1, 1917,	Park	4s	1,000 00
Dec.	1, 1917,	Municipal	4s	1,000 00
Dec.	1, 1917,	Street	4s	400 00
Dec.	1, 1917,	Sewer Sep. System	4s	500 00
Jan.	1, 1918,	School House	4s	3,250 00
Mar.	1, 1918,	School	4s	5,000 00
Mar.	1, 1918,	Sewer	4s	500 00
May	1, 1918,	Street	4s	1,500 00
May	1, 1918,	Cambridge Bridge	4s	2,000 00
July	1. 1918,	Street	4s	2,500 00
July	1. 1918,	Building	4s	4,000 00
July	1. 1918,	Sewer	4s	500 00
July	1. 1918,	Sewer Sep. System	4s	500 00
July	1. 1918,	Playground	4s	1,500 00
July	1. 1918,	Park	4s	1,000 00
July	1. 1918,	School House	4½s	3,250 00
July	1. 1918,	Building	4½s	5,500 00
July	1. 1918,	Street	4½s	9,300 00
July	1. 1918,	Street	4s	500 00
July	1. 1918,	Street	4s	3,000 00
July	1. 1918,	Street	4s	4,800 00
July	1. 1918,	Street	4s	3,500 00
July	1. 1918,	Bridge	4s	400 00
July	1. 1918,	Sewer Sep. System	4s	1,000 00
July	1. 1918,	Park	4s	1,000 00
July	1. 1918,	Street	4s	500 00
Aug.	1, 1918,	Street	4s	12,000 00
Sept.	1, 1918,	Street	4s	6,000 00
Sept.	1, 1918,	Street	4½s	1,300 00
Sept.	1, 1918,	Hospital	4½s	3,000 00
Sept.	1, 1918,	Park	3½s	2,000 00
Oct.	1, 1918,	Street	4s	3,900 00
Nov.	1, 1918,	Street	4s	5,500 00
Nov.	1, 1918,	Park	4s	1,000 00
Dec.	1, 1918,	Municipal	4s	1,000 00
Dec.	1, 1918,	Street	4s	400 00
Dec.	1, 1918,	Sewer Sep. System	4s	500 00
Jan.	1, 1919,	School House	4s	3,250 00
Amount carried forward				$281,100 00

Amount brought forward				$281,100 00
Mar.	1, 1919,	School	4s	5,000 00
Mar.	1, 1919,	Sewer	4s	500 00
May	1, 1919,	Street	4s	1,500 00
May	1, 1919,	Cambridge Bridge	4s	2,000 00
July	1, 1919,	Street	4s	2,500 00
July	1, 1919,	Building	4s	4,000 00
July	1, 1919,	Sewer	4s	500 00
July	1, 1919,	Sewer Sep. System	4s	500 00
July	1, 1919,	Playground	4s	1,500 00
July	1, 1919,	Park	4s	1,000 00
July	1, 1919,	School House	4½s	3,250 00
July	1, 1919,	Building	4½s	5,500 00
July	1, 1919,	Street	4½s	9,300 00
July	1, 1919,	Building	4½s	500 00
July	1, 1919,	Street	4s	3,000 00
July	1, 1919,	Street	4s	4,800 00
July	1, 1919,	Street	4s	3,500 00
July	1, 1919,	Bridge	4s	400 00
July	1, 1919,	Sewer Sep. System	4s	1,000 00
July	1, 1919,	Park	4s	1,000 00
July	1, 1919,	Street	4s	500 00
Aug.	1, 1919,	Street	4s	12,000 00
Sept.	1, 1919,	Street	4s	6,000 00
Sept.	1, 1919,	Park	3½s	2,000 00
Sept.	1, 1919,	Street	4½s	1,300 00
Sept.	1, 1919,	Hospital	4½s	3,000 00
Oct.	1, 1919,	Street	4s	3,900 00
Nov.	1, 1919,	Street	4s	5,500 00
Nov.	1, 1919,	Park	4s	1,000 00
Dec.	1, 1919,	Municipal	4s	1,000 00
Dec.	1, 1919,	Street	4s	400 00
Dec.	1, 1919,	Sewer Sep. System	4s	500 00
Jan.	1, 1920,	School House	4s	3,250 00
Mar.	1, 1920,	Sewer	4s	500 00
Mar.	1, 1920,	Sewer	4s	500 00
May	1, 1920,	Street	4s	1,500 00
May	1, 1920,	Cambridge Bridge	4s	2,000 00
July	1, 1920,	Street	4s	2,500 00
July	1, 1920,	Building	4s	4,000 00
July	1, 1920,	Sewer	4s	500 00
July	1, 1920,	Sewer Sep. System	4s	500 00
July	1, 1920,	Playground	4s	1,500 00
July	1, 1920,	Park	4s	1,000 00
July	1, 1920,	School House	4½s	3,250 00
July	1, 1920,	Building	4½s	5,500 00
July	1, 1920,	Street	4½s	9,300 00
July	1, 1920,	Street	4s	4,800 00
July	1, 1920,	Street	4s	3,500 00
July	1, 1920,	Bridge	4s	400 00
July	1, 1920,	Sewer Sep. System	4s	1,000 00
July	1, 1920,	Park	4s	1,000 00
July	1, 1920,	Street	4s	500 00
Amount carried forward				$416,450 00

Amount brought forward					$416,450 00
Aug.	1, 1920,	Street	4s	12,000 00	
Sept.	1, 1920,	Street	4s	6,000 00	
Sept.	1, 1920,	Park	3½s	2,000 00	
Sept.	1, 1920,	Street	4½s	800 00	
Sept.	1, 1920,	Hospital	4½s	3,000 00	
Oct.	1, 1920,	Street	4s	3,900 00	
Nov.	1, 1920,	Street	4s	5,500 00	
Nov.	1, 1920,	Park	4s	1,000 00	
Dec.	1, 1920,	Municipal	4s	1,000 00	
Dec.	1, 1920,	Street	4s	400 00	
Dec.	1, 1920,	Sewer Sep. System	4s	500 00	
Jan.	1, 1921,	School House	4s	3,250 00	
May	1, 1921,	Cambridge Bridge	4s	2,000 00	
July	1, 1921,	Street	4s	2,000 00	
July	1, 1921,	Building	4s	4,000 00	
July	1, 1921,	Sewer Sep. System	4s	500 00	
July	1, 1921,	Sewer	4s	500 00	
July	1, 1921,	Playground	4s	1,500 00	
July	1, 1921,	Park	4s	1,000 00	
July	1, 1921,	School House	4½s	3,250 00	
July	1, 1921,	Building	4½s	5,500 00	
July	1, 1921,	Street	4½s	9,300 00	
July	1, 1921,	Street	4s	4,800 00	
July	1, 1921,	Street	4s	3,500 00	
July	1, 1921,	Bridge	4s	400 00	
July	1, 1921,	Sewer Sep. System	4s	1,000 00	
July	1, 1921,	Park	4s	1,000 00	
July	1, 1921,	Street	4s	500 00	
Aug.	1, 1921,	Street	4s	12,000 00	
Sept.	1, 1921,	Street	4s	6,000 00	
Sept.	1, 1921,	Park	3½s	2,000 00	
Sept.	1, 1921,	Street	4½s	800 00	
Sept.	1, 1921,	Hospital	4½s	3,000 00	
Oct.	1, 1921,	Street	4s	500 00	
Nov.	1, 1921,	Street	4s	5,000 00	
Dec.	1, 1921,	Municipal	4s	1,000 00	
Dec.	1, 1921,	Street	4s	400 00	
Dec.	1, 1921,	Sewer Sep. System	4s	500 00	
Jan.	1, 1922,	School House	4s	3,250 00	
Mar.	1, 1922,	Sewer	4s	500 00	
May	1, 1922,	Cambridge Bridge	4s	2,000 00	
July	1, 1922,	Street	4s	2,000 00	
July	1, 1922,	Building	4s	4,000 00	
July	1, 1922,	Sewer	4s	500 00	
July	1, 1922,	Sewer Sep. System	4s	500 00	
July	1, 1922,	Playground	4s	1,500 00	
July	1, 1922,	Park	4s	1,000 00	
July	1, 1922,	School House	4½s	3,250 00	
July	1, 1922,	Building	4½s	5,500 00	
July	1, 1922,	Street	4½s	9,300 00	
July	1, 1922,	Street	4s	4,800 00	
July	1, 1922,	Street	4s	3,500 00	
July	1, 1922,	Bridge	4s	400 00	
Amount carried forward					$569,750 00

Amount brought forward				$569,750 00
July	1, 1922,	Sewer Sep. System	4s	1,000 00
July	1, 1922,	Park	4s	1,000 00
July	1, 1922,	Street	4s	500 00
Aug.	1, 1922,	Street	4s	12,000 00
Sept.	1, 1922,	Street	4s	6,000 00
Sept.	1, 1922,	Street	4½s	800 00
Sept.	1, 1922,	Hospital	4½s	3,000 00
Sept.	1, 1922,	Park	3½s	2,000 00
Oct.	1, 1922,	Street	4s	500 00
Nov.	1, 1922,	Street	4s	5,000 00
Dec.	1, 1922,	Municipal	4s	1,000 00
Dec.	1, 1922,	Street	4s	400 00
Dec.	1, 1922,	Sewer Sep. System	4s	500 00
Jan.	1, 1923,	School House	4s	3,250 00
Mar.	1, 1923,	Sewer	4s	500 00
May	1, 1923,	Cambridge Bridge	4s	2,000 00
July	1, 1923,	Street	4s	2,000 00
July	1, 1923,	Building	4s	4,000 00
July	1, 1923,	Sewer	4s	500 00
July	1, 1923,	Sewer Sep. System	4s	500 00
July	1, 1923,	Playground	4s	1,500 00
July	1, 1923,	Park	4s	1,000 00
July	1, 1923,	School House	4½s	3,250 00
July	1, 1923,	Building	4½s	5,500 00
July	1, 1923,	Street	4½s	8,000 00
July	1, 1923,	Street	4s	4,800 00
July	1, 1923,	Street	4s	3,500 00
July	1, 1923,	Bridge	4s	400 00
July	1, 1923,	Sewer	4s	1,000 00
July	1, 1923,	Park	4s	1,000 00
July	1, 1923,	Street	4s	500 00
Aug.	1, 1923,	Street	4s	12,000 00
Sept.	1, 1923,	Street	4s	6,000 00
Sept.	1, 1923,	Park	3½s	2,000 00
Sept.	1, 1923,	Street	4½s	800 00
Sept.	1, 1923,	Hospital	4½s	3,000 00
Oct.	1, 1923,	Street	4s	500 00
Nov.	1, 1923,	Street	4s	5,000 00
Dec.	1, 1923,	Municipal	4s	1,000 00
Dec.	1, 1923,	Street	4s	400 00
Dec.	1, 1923,	Sewer Sep. System	4s	500 00
Jan.	1, 1924,	School House	4s	3,250 00
Mar.	1, 1924,	Sewer	4s	500 00
May	1, 1924,	Cambridge Bridge	4s	2,000 00
July	1, 1924,	Street	4s	2,000 00
July	1, 1924,	Building	4s	4,000 00
July	1, 1924,	Sewer	4s	500 00
July	1, 1924,	Sewer Sep. System	4s	500 00
July	1, 1924,	Playground	4s	1,500 00
July	1, 1924,	Park	4s	1,000 00
July	1, 1924,	School House	4½s	3,250 00
July	1, 1924,	Street	4½s	2,000 00
July	1, 1924,	Street	4s	4,800 00
Amount carried forward				$703,150 00

Amount brought forward				$703,150 00
July	1, 1924,	Street	4s	3,500 00
July	1, 1924,	Bridge	4s	400 00
July	1, 1924,	Sewer Sep. System	4s	1,000 00
July	1, 1924,	Park	4s	1,000 00
July	1, 1924,	Street	4s	500 00
Aug.	1, 1924,	Street	4s	12,000 00
Sept.	1, 1924,	Street	4s	6,000 00
Sept.	1, 1924,	Park	3½s	2,000 00
Sept.	1, 1924,	Street	4½s	800 00
Sept.	1, 1924,	Hospital	4½s	3,000 00
Oct.	1, 1924,	Street	4s	500 00
Nov.	1, 1924,	Street	4s	5,000 00
Dec.	1, 1924,	Street	4s	400 00
Dec.	1, 1924,	Sewer	4s	500 00
Jan.	1, 1925,	Street	4s	3,250 00
Mar.	1, 1925,	Sewer	4s	500 00
May	1, 1925,	Cambridge Bridge	4s	2,000 00
July	1, 1925,	Street	4s	2,000 00
July	1, 1925,	Building	4s	4,000 00
July	1, 1925,	Sewer	4s	500 00
July	1, 1925,	Sewer Sep. System	4s	500 00
July	1, 1925,	Playground	4s	1,500 00
July	1, 1925,	Park	4s	1,000 00
July	1, 1925,	School House	4½s	3,250 00
July	1, 1925,	Street	4½s	2,000 00
July	1, 1925,	Bridge	4s	400 00
July	1, 1925,	Sewer Sep. System	4s	1,000 00
July	1, 1925,	Park	4s	1,000 00
Sept.	1, 1925,	Street	4s	6,000 00
Sept.	1, 1925,	Park	3½s	2,000 00
Sept.	1, 1925,	Hospital	4½s	3,000 00
Oct.	1, 1925,	Street	4s	500 00
Nov.	1, 1925,	Street	4s	5,000 00
Dec.	1, 1925,	Sewer Sep. System	4s	500 00
Jan.	1, 1926,	Street	4s	3,250 00
Mar.	1, 1926,	Sewer	4s	500 00
May	1, 1926,	Cambridge Bridge	4s	2,000 00
July	1, 1926,	Building	4s	4,000 00
July	1, 1926,	Sewer	4s	500 00
July	1, 1926,	Sewer Sep. System	4s	500 00
July	1, 1926,	Playground	4s	1,000 00
July	1, 1926,	Park	4s	1,000 00
July	1, 1926,	School House	4½s	3,250 00
July	1, 1926,	Street	4½s	2,000 00
July	1, 1926,	Bridge	4s	400 00
July	1, 1926,	Sewer Sep. System	4s	1,000 00
July	1, 1926,	Park	4s	1,000 00
Sept.	1, 1926,	Hospital	4½s	3,000 00
Sept.	1, 1926,	Park	3½s	2,000 00
Dec.	1, 1926,	Sewer Sep. System	4s	500 00
Jan.	1, 1927,	School House	4s	3,250 00
May	1, 1927,	Cambridge Bridge	4s	2,000 00
Amount carried forward				$810,800 00

Amount brought forward				$810,800 00
July	1, 1927,	Building	4s	4,000 00
July	1, 1927,	Sewer	4s	500 00
July	1, 1927,	Sewer Sep. System	4s	500 00
July	1, 1927,	Playground	4s	1,000 00
July	1, 1927,	Park	4s	1,000 00
July	1, 1927,	School House	4½s	3,250 00
July	1, 1927,	Street	4½s	2,000 00
July	1, 1927,	Bridge	4s	400 00
July	1, 1927,	Sewer Sep. System	4s	1,000 00
July	1, 1927,	Park	4s	1,000 00
Sept.	1, 1927,	Park	3½s	2,000 00
Sept.	1, 1927,	Hospital	4½s	3,000 00
Dec.	1, 1927,	Sewer Sep. System	4s	500 00
Jan.	1, 1928,	School House	4s	3,250 00
May	1, 1928,	Cambridge Bridge	4s	2,000 00
July	1, 1928,	Building	4s	4,000 00
July	1, 1928,	Sewer	4s	500 00
July	1, 1928,	Sewer Sep. System	4s	500 00
July	1, 1928,	Playground	4s	1,000 00
July	1, 1928,	Park	4s	1,000 00
July	1, 1928,	School House	4½s	3,250 00
July	1, 1928,	Street	4½s	2,000 00
July	1, 1928,	Bridge	4s	400 00
July	1, 1928,	Sewer Sep. System	4s	1,000 00
July	1, 1928,	Park	4s	1,000 00
Sept.	1, 1928,	Park	3½s	2,000 00
Sept.	1, 1928,	Hospital	4½s	3,000 00
Dec.	1, 1928,	Sewer Sep. System	4s	500 00
Jan.	1, 1929,	School House	4s	3,250 00
May	1, 1929,	Cambridge Bridge	4s	2,000 00
July	1, 1929,	Building	4s	4,000 00
July	1, 1929,	Sewer	4s	500 00
July	1, 1929,	Sewer Sep. System	4s	500 00
July	1, 1929,	Playground	4s	1,000 00
July	1, 1929,	Park	4s	1,000 00
July	1, 1929,	School House	4½s	3,250 00
July	1, 1929,	Street	4½s	2,000 00
July	1, 1929,	Bridge	4s	400 00
July	1, 1929,	Sewer Sep. System	4s	1,000 00
July	1, 1929,	Park	4s	1,000 00
Sept.	1, 1929,	Park	3½s	2,000 00
Sept.	1, 1929,	Hospital	4½s	3,000 00
Dec.	1, 1929,	Sewer Sep. System	4s	500 00
Jan.	1, 1930,	School House	4s	3,250 00
May	1, 1930,	Cambridge Bridge	4s	2,000 00
July	1, 1930,	Building	4s	4,000 00
July	1, 1930,	Sewer	4s	500 00
July	1, 1930,	Sewer Sep. System	4s	500 00
July	1, 1930,	Playground	4s	1,000 00
July	1, 1930,	Park	4s	1,000 00
July	1, 1930,	School House	4½s	3,250 00
Amount carried forward				$897,250 00

Amount brought forward					$897,250 00
July	1, 1930,	Street	4½s	2,000 00	
July	1, 1930,	Bridge	4s	400 00	
July	1, 1930,	Sewer Sep. System	4s	1,000 00	
July	1, 1930,	Park	4s	1,000 00	
Sept.	1, 1930,	Park	3½s	2,000 00	
Sept.	1, 1930,	Hospital	4½s	3,000 00	
Dec.	1, 1930,	Sewer Sep. System	4s	500 00	
Jan.	1, 1931,	School House	4s	3,250 00	
May	1, 1931,	Cambridge Bridge	4s	2,000 00	
July	1, 1931,	Building	4s	4,000 00	
July	1, 1931,	Sewer	4s	500 00	
July	1, 1931,	Sewer Sep. System	4s	500 00	
July	1, 1931,	Playground	4s	1,000 00	
July	1, 1931,	Park	4s	1,000 00	
July	1, 1931,	Street	4½s	2,000 00	
July	1, 1931,	Bridge	4s	400 00	
July	1, 1931,	Sewer Sep. System	4s	1,000 00	
July	1, 1931,	Park	4s	1,000 00	
Sept.	1, 1931,	Park	3½s	2,000 00	
Dec.	1, 1931,	Sewer Sep. System	4s	500 00	
Jan.	1, 1932,	School House	4s	3,250 00	
May	1, 1932,	Cambridge Bridge	4s	2,000 00	
July	1, 1932,	Building	4s	4,000 00	
July	1, 1932,	Sewer	4s	500 00	
July	1, 1932,	Sewer Sep. System	4s	500 00	
July	1, 1932,	Playground	4s	1,000 00	
July	1, 1932,	Park	4s	1,000 00	
July	1, 1932,	School House	4½s	3,250 00	
July	1, 1932,	Street	4½s	2,000 00	
July	1, 1932,	Bridge	4s	400 00	
July	1, 1932,	Sewer Sep. System	4s	1,000 00	
July	1, 1932,	Park	4s	1,000 00	
Sept.	1, 1932,	Park	3½s	2,000 00	
Sept.	1, 1932,	Hospital	4½s	3,000 00	
Dec.	1, 1932,	Sewer Sep. System	4s	500 00	
Jan.	1, 1933,	School House	4s	3,250 00	
May	1, 1933,	Cambridge Bridge	4s	2,000 00	
July	1, 1933,	Building	4s	4,000 00	
July	1, 1933,	Sewer	4s	500 00	
July	1, 1933,	Sewer Sep. System	4s	500 00	
July	1, 1933,	Playground	4s	1,000 00	
July	1, 1933,	Park	4s	1,000 00	
July	1, 1933,	School House	4½s	3,250 00	
July	1, 1933,	Street	4½s	2,000 00	
July	1, 1933,	Bridge	4s	400 00	
July	1, 1933,	Sewer Sep. System	4s	1,000 00	
July	1, 1933,	Park	4s	1,000 00	
Sept.	1, 1933,	Park	3½s	1,000 00	
Sept.	1, 1933,	Hospital	4½s	3,000 00	
Dec.	1, 1933,	Sewer Sep. System	4s	500 00	
Jan.	1, 1934,	School House	4s	3,250 00	
Amount carried forward					$979,350 00

Amount brought forward					$979,350 00
May	1, 1934,	Cambridge Bridge	4s	2,000 00	
July	1, 1934,	Building	4s	4,000 00	
July	1, 1934,	Sewer	4s	500 00	
July	1, 1934,	Sewer Sep. System	4s	500 00	
July	1, 1934,	Playground	4s	1,000 00	
July	1, 1934,	Park	4s	1,000 00	
July	1, 1934,	Street	4s	400 00	
July	1, 1934,	Sewer Sep. System	4s	1,000 00	
July	1, 1934,	Park	4s	1,000 00	
Sept.	1, 1934,	Park	3½s	1,000 00	
Sept.	1, 1934,	Hospital	4½s	3,000 00	
Dec.	1, 1934,	Sewer Sep. System	4s	500 00	
Jan.	1, 1935,	School House	4s	3,250 00	
May	1, 1935,	Cambridge Bridge	4s	2,000 00	
July	1, 1935,	Building	4s	4.000 00	
July	1, 1935,	Sewer	4s	500 00	
July	1, 1935,	Sewer Sep. System	4s	500 00	
July	1, 1935,	Playground	4s	1,000 00	
July	1, 1935,	Park	4s	1,000 00	
July	1, 1935,	Sewer Sep. System	4s	1,000 00	
July	1, 1935,	Park	4s	1,000 00	
Sept.	1, 1935,	Park	3½s	1,000 00	
Dec.	1, 1935,	Sewer Sep. System	4s	500 00	
May	1, 1936,	Cambridge Bridge	4s	2,000 00	
July	1, 1936,	Sewer	4s	500 00	
July	1, 1936,	Sewer Sep. System	4s	500 00	
July	1, 1936,	Park	4s	1,000 00	
July	1, 1936,	Sewer Sep. System	4s	1,000 00	
July	1, 1936,	Park	4s	1,000 00	
Sept.	1, 1936,	Park	4s	1,000 00	
Dec.	1, 1936,	Sewer Sep. System	4s	500 00	
May	1, 1937,	Cambridge Bridge	4s	2,000 00	
July	1, 1937,	Sewer	4s	500 00	
July	1, 1937,	Sewer Sep. System	4s	500 00	
July	1, 1937,	Park	4s	1,000 00	
July	1, 1937,	Sewer Sep. System	4s	1,000 00	
July	1, 1937,	Park	4s	1,000 00	
Sept.	1, 1937,	Park	3½s	1,000 00	
Dec.	1, 1937,	Sewer Sep. System	4s	500 00	
May	1, 1938,	Cambridge Bridge	4s	2,000 00	
July	1, 1938,	Sewer	4s	500 00	
July	1, 1938,	Sewer Sep. System	4s	500 00	
July	1, 1938,	Park	4s	1,000 00	
July	1, 1938,	Sewer Sep. System	4s	1,000 00	
July	1, 1938,	Park	4s	1,000 00	
Sept.	1, 1938,	Park	3½s	1,000 00	
Dec.	1, 1938,	Sewer Sep. System	4s	500 00	
May	1, 1939,	Cambridge Bridge	4s	2,000 00	
July	1, 1939,	Sewer	4s	500 00	
Amount carried forward					$1,036,000 00

Amount brought forward				$1,036,000 00
July	1, 1939,	Sewer Sep. System	4s	500 00
July	1, 1939,	Park	4s	1,000 00
July	1, 1939,	Sewer Sep. System	4s	1,000 00
July	1, 1939,	Park	4s	1,000 00
Sept.	1, 1939,	Park	3½s	1,000 00
Dec.	1, 1939,	Sewer Sep. System	4s	500 00
May	1, 1940,	Cambridge Bridge	4s	2,000 00
July	1, 1940,	Sewer	4s	500 00
July	1, 1940,	Sewer Sep. System	4s	500 00
July	1, 1940,	Park	4s	1,000 00
July	1, 1940,	Sewer Sep. System	4s	1,000 00
July	1, 1940,	Park	4s	1,000 00
Sept.	1, 1940,	Park	3½s	1,000 00
Dec.	1, 1940,	Sewer Sep. System	4s	500 00
May	1, 1941,	Cambridge Bridge	4s	2,000 00
July	1, 1941,	Sewer	4s	500 00
July	1, 1941,	Sewer Sep. System	4s	500 00
July	1, 1941,	Sewer Sep. System	4s	1,000 00
July	1, 1941,	Park	3½s	1,000 00
Sept.	1, 1941,	Park	4s	1,000 00
Dec.	1, 1941,	Sewer Sep. System	4s	500 00
May	1, 1942,	Cambridge Bridge	4s	2,000 00
July	1, 1942,	Sewer	4s	500 00
July	1, 1942,	Sewer Sep. System	4s	500 00
July	1, 1942,	Sewer Sep. System	4s	1,000 00
July	1, 1942,	Park	4s	1,000 00
Sept.	1, 1942,	Park	3½s	1,000 00
Dec.	1, 1942,	Sewer Sep. System	4s	500 00
May	1, 1943,	Cambridge Bridge	4s	2,000 00
July	1, 1943,	Sewer	4s	500 00
July	1, 1943,	Sewer Sep. System	4s	500 00
July	1, 1943,	Sewer Sep. System	4s	1,000 00
July	1, 1943,	Park	4s	1,000 00
Dec.	1, 1943,	Sewer Sep. System	4s	500 00
May	1, 1944,	Cambridge Bridge	4s	2,000 00
July	1, 1944,	Sewer	4s	500 00
July	1, 1944,	Sewer Sep. System	4s	500 00
July	1, 1944,	Sewer Sep. System	4s	1,000 00
July	1, 1944,	Park	4s	1,000 00
Dec.	1, 1944,	Sewer Sep. System	4s	500 00
May	1, 1945,	Cambridge Bridge	4s	2,000 00
July	1, 1945,	Sewer	4s	500 00
July	1, 1945,	Sewer Sep. System	4s	500 00
				$1,075,500 00

The bonded City Debt matures as follows, viz:—

Provided for by Sinking Fund.

July	1, 1916,	Building	4s	$70,000 00
Oct.	1, 1916,	Street	4s	137,000 00
Oct.	1, 1916,	Building	4s	33,000 00
Oct.	1, 1916,	Sewer	4s	75,000 00
Oct.	1, 1916,	School House	4s	6,000 00
July	1, 1917,	School House	3½s	100,000 00
Oct.	1, 1917,	Harvard Bridge	4s	10,000 00
Jan.	1, 1918,	City	4s	10,000 00
MAY	1, 1918,	CITY	4s	400,000 00
May	2, 1918,	School House	3½s	100,000 00
May	2, 1918,	Street	3½s	15,000 00
June	1, 1918,	School House	3½s	50,000 00
June	1, 1918,	City	4s	30,000 00
July	1, 1918,	Harvard Bridge	4s	100,000 00
Aug.	1, 1918,	School House	3½s	142,000 00
Aug.	1, 1918,	City	4s	7,000 00
Sept.	1, 1918,	Harvard Bridge	4s	100,000 00
Mar.	1, 1919,	Harvard Bridge	4s	115,000 00
JULY	1, 1919,	SCHOOL HOUSE	3½s	42,000 00
Nov.	1, 1919,	Street	3½s	5,000 00
Nov.	1, 1919,	School House	3½s	13,000 00
July	1, 1920,	Street	3½s	75,000 00
July	1, 1920,	Municipal	4s	8,000 00
Nov.	1, 1920,	Harvard Bridge	4s	5,000 00
Nov.	1, 1920,	Street	3½s	21,000 00
Mar.	1, 1921,	Street	3½s	25,800 00
Mar.	1, 1921,	Street	4s	25,000 00
Mar.	1, 1921,	Street	3½s	25,000 00
JULY	1, 1921,	HARVARD BRIDGE	4s	60,000 00
July	1, 1921,	Street	3½s	30,000 00
July	1, 1921,	Cambridge Bridge	3½s	24,000 00
July	1, 1921,	School House	3½s	76,000 00
July	1, 1921,	Street	3½s	55,000 00
July	1, 1921,	Municipal	3½s	25,000 00
July	1, 1921,	Cemetery	3½s	8,000 00
Nov.	1, 1921,	Public Library	3½s	27,000 00
Dec.	1, 1921,	Chas. River Basin Assn.	4s	60,000 00
Dec.	1, 1921,	Street	4s	17,000 00
Mar.	1, 1922,	Municipal	3½s	15,500 00
JULY	1, 1922,	HOSPITAL	3½s	6,000 00
July	1, 1922,	School House	3½s	86,500 00
July	1, 1922,	Street	3½s	30,000 00
Sept.	1, 1922,	Municipal	4s	35,000 00
Sept.	1, 1922,	Street	4s	7,000 00
Sept.	1, 1922,	Street	4s	118,000 00
Oct.	1, 1922,	School House	3½s	11,000 00
Nov.	1, 1922,	Street	3½s	14,000 00
Feb.	1, 1923,	Municipal	4s	4,800 00

Amount carried forward $2,454,600 00

Amount brought forward				$2,454,600 00
Feb.	1, 1923,	Municipal	4s	35,000 00
Feb.	1, 1923,	Street	4s	10,000 00
Feb.	1, 1923,	Street	4s	3,000 00
Apr.	1, 1923,	Street	3½s	4,000 00
Apr.	1, 1923,	Building	3½s	3,000 00
July	1, 1923,	Street	4s	57,800 00
July	1, 1923,	Municipal	4s	25,000 00
Aug.	1, 1923,	Harvard Bridge	4s	10,000 00
Oct.	1, 1923,	School House	3½s	80,000 00
Nov.	1, 1923,	Street	3½s	12,000 00
Feb.	1, 1924,	Park	4s	360,000 00
Apr.	1, 1924,	Building	3½s	25,000 00
Apr.	1, 1924,	School House	3½s	80,000 00
May	1, 1924,	School House	3½s	5,000 00
Aug.	1, 1924,	Sewer	4s	75,000 00
Sept.	1, 1924,	Street	3½s	59,000 00
Nov.	1, 1924,	Building	3½s	6,000 00
Nov.	1, 1924,	School House	3½s	20,000 00
Nov.	1, 1924,	Street	3½s	6,500 00
May	1, 1925,	Street	3½s	84,000 00
May	1, 1925,	School House	3½s	20,950 00
Aug.	1, 1925,	School House	3½s	20,000 00
Oct.	1, 1925,	Sewer	4s	60,000 00
Nov.	1, 1925,	Street	3½s	1,500 00
May	1, 1926,	Street	4s	100,000 00
Aug.	1, 1926,	Park	4s	100,000 00
Aug.	1, 1926,	School House	4s	47,000 00
Aug.	1, 1926,	Street	4s	22,000 00
Oct.	1, 1926,	Park	4s	40,000 00
Apr.	1, 1927,	Street	4s	40,000 00
June	1, 1927,	Street	4s	19,000 00
Sept.	1, 1927,	Street	4s	25,000 00
Sept.	1, 1927,	Building	4s	30,000 00
Nov.	1, 1927,	Street	4s	10,000 00
Jan.	1, 1928,	Street	4s	34,000 00
Aug.	1, 1928,	Street	4s	42,000 00
Aug.	1, 1928,	Hospital	4s	20,000 00
Dec.	1, 1928,	School House	3½s	40,000 00
Mar.	1, 1929,	Street	3½s	20,000 00
Nov.	1, 1929,	Sewer	3½s	42,000 00
Jan.	1, 1930,	Street	3½s	13,500 00
Jan.	1, 1930,	School House	3½s	93,500 00
July	1, 1930,	Sewer	3½s	100,000 00
July	1, 1930,	School House	4s	120,000 00
July	1, 1930,	Cambridge Hospital	4s	95,000 00
Amount carried forward				$4,570,350 00

Amount brought forward				$4,570,350 00
July	1, 1930,	Street	4s	12,000 00
Mar.	1, 1931,	Street	3½s	27,000 00
Mar.	1, 1931,	School House	3½s	5,000 00
July	1, 1931,	Street	3½s	8,000 00
July	1, 1931,	Street	3½s	45,000 00
July	1, 1931,	School House	4½s	3,250 00
Aug.	1, 1931,	Sewer	3½s	110,000 00
Sept.	1, 1931,	Hospital	4½s	3,000 00
Dec.	1, 1931,	Hospital	3½s	4,000 00
Feb.	1, 1932,	Street	3½s	6,250 00
Feb.	1, 1932,	School	3½s	5,000 00
Mar.	1, 1932,	Hospital	3½s	25,000 00
Mar.	1, 1932,	School House	3½s	2,500 00
Aug.	1, 1932,	Metropolitan Park Assn.	3½s	46,000 00
Sept.	1, 1932,	Street	3½s	6,200 00
Nov.	1, 1932,	Sewer	3½s	20,000 00
Apr.	1, 1933,	Sewer	3½s	40,000 00
July	1, 1933,	Street	4s	4,000 00
Aug.	1, 1933,	Street	4s	18,000 00
Oct.	1, 1933,	Sewer	3½s	20,000 00
May	1, 1934,	Sewer	3½s	112,000 00
May	1, 1934,	Camb. Bridge Special	3½s	28,000 00
Nov.	1, 1934,	Sewer	3½s	5,000 00
May	1, 1935,	Sewer	3½s	90,000 00
Aug.	1, 1935,	Park	4s	100,000 00
Feb.	1, 1936,	Park	4s	100,000 00
May	1, 1936,	Sewer	4s	35,000 00
Sept.	1, 1936,	Sewer	4s	25,000 00
Apr.	1, 1937,	Sewer	4s	60,000 00
Sept.	1, 1937,	Park	3½s	100,000 00
Nov.	1, 1937,	Sewer	4s	10,000 00
Nov.	1, 1937,	Charles River Imp'ment	3½s	50,000 00
June	1, 1938,	Park	3½s	50,000 00
Aug.	1, 1938,	Park	3½s	50,000 00
Aug.	1, 1938,	Charles River Imp'ment	3½s	50,000 00
Aug.	1, 1938,	Sewer	4s	25,000 00
Dec.	1, 1938,	Sewer	4s	17,000 00
July	1, 1939,	Cambridge Bridge	3½s	50,000 00
July	1, 1939,	Sewer	3½s	2,000 00
Aug.	1, 1939,	Park	3½s	100,000 00
Jan.	1, 1940,	Sewer	3½s	46,000 00
May	1, 1940,	Sewer	4s	15,000 00
July	1, 1940,	Cambridge Bridge	3½s	100,000 00
Amount carried forward				$6,200,550 00

Amount brought forward				$6,200,550 00
July	1, 1940,	Park	3½s	50,000 00
July	1, 1940,	Sewer	4s	25,000 00
July	1, 1940,	Playground	4s	50,000 00
Nov.	1, 1940,	Park	3½s	50,000 00
Feb.	1, 1941,	Cambridge Bridge	3s	100,000 00
Mar.	1, 1941,	Sewer	3½s	10,000 00
July	1, 1941,	Playground	3½s	15,000 00
July	1, 1941,	Sewer	3½s	10,000 00
July	1, 1941,	Sewer	3½s	10,000 00
Oct.	1, 1941,	Park	3½s	100,000 00
Nov.	1, 1941,	Cambridge Bridge	3½s	100,000 00
Dec.	1, 1941,	Sewer Sep. System	3½s	10,000 00
Dec.	1, 1941,	Playground	3½s	30,000 00
July	1, 1942,	Park	3½s	48,000 00
Aug.	1, 1942,	Cambridge Bridge	3½s	100,000 00
Sept.	1, 1942,	Sewer	3½s	15,000 00
Jan.	1, 1943,	Cambridge Bridge	3½s	50,000 00
Feb.	1, 1943,	Sewer	3½s	10,000 00
Feb.	1, 1943,	Separate System	3½s	10,000 00
Apr.	1, 1943,	Cambridge Bridge	3½s	50,000 00
Apr.	1, 1943,	Park	3½s	50,000 00
July	1, 1943,	Sewer	4s	25,000 00
Aug.	1, 1943,	Cambridge Bridge	3½s	50,000 00
Jan.	1, 1944,	Cambridge Bridge	3½s	100,000 00
May	1, 1944,	Cambridge Bridge	3½s	200,000 00
Aug.	1, 1944,	Cambridge Bridge	3½s	100,000 00
Sept.	1, 1944,	Cambridge Bridge	3½s	50,000 00
Sept.	1, 1944,	Park	3½s	25,000 00
Nov.	1, 1944,	Park	3½s	6,000 00
Apr.	1, 1945,	Park	3½s	5,000 00
May	1, 1945,	Park	3½s	45,000 00
May	1, 1945,	Cambridge Bridge	3½s	150,000 00
Aug.	1, 1945,	Park	3½s	5,000 00
Dec.	1, 1945,	Cambridge Bridge	3½s	100,000 00
Jan.	1, 1946,	Cambridge Bridge	3½s	20,000 00
Aug.	1, 1946,	Cambridge Bridge	4s	150,000 00
Aug.	1, 1946,	Commercial Ave. Bridge	3½s	50,000 00
Sept.	1, 1946,	Park	3½s	25,000 00
Sept.	1, 1946,	Cambridge Bridge	4s	5,000 00
Jan.	1, 1947,	Cambridge Bridge	3½s	50,000 00
July	1, 1947,	Cambridge Bridge	4s	40,000 00
Oct.	1, 1947,	Cambridge Bridge	4s	15,000 00
Oct.	1, 1947,	Park	4s	10,000 00
Aug.	1, 1948,	Cambridge Bridge	4s	45,000 00
Aug.	1, 1948,	Park	4s	30,000 00
Amount carried forward				$8,394,550 00

Amount brought forward				$8,394,550 00
Nov.	1, 1948,	Park	4s	12,000 00
Jan.	1, 1950,	Park	3½s	8,800 00
July	1, 1950,	Cambridge Bridge	4s	20,000 00
Mar.	1, 1951,	Park	3½s	17,000 00
July	1, 1951,	Park	3½s	7,000 00
Dec.	1, 1951,	Park	3½s	6,200 00
Dec.	1, 1951,	Bridge	3½s	10,000 00
Mar.	1, 1952,	Bridge	3½s	10,000 00
				$8,485,550 00

The bonded Water Debt matures as follows:—

Provided for by Sinking Fund.

Apr.	1, 1916	4		$100,000 00
July	1, 1916	4		200,000 00
Aug.	1, 1916	4		100,000 00
Oct.	1, 1916	4		265,100 00
Apr.	1, 1917	3½		200,000 00
July	1, 1917	3½		100,000 00
Dec.	1, 1917	3½		140,000 00
May	2, 1918	3½		50,000 00
June	2, 1918	3½		60,000 00
Nov.	1, 1918	3½		50,000 00
Nov.	1, 1919	3½		23,000 00
Nov.	1, 1920	3½		30,000 00
July	1, 1921	3½		30,000 00
July	1, 1922	3½		13,500 00
Nov.	1, 1922	3½		5,000 00
Apr.	1, 1924	4		300,000 00
May	1, 1925	3½		46,000 00
June	1, 1928	4		20,000 00
Jan.	1, 1930	4		5,000 00
Feb.	1, 1930	3½		5,000 00
May	1, 1936	4		280,000 00
June	1, 1937	4		49,000 00
July	1, 1937	4		25,000 00
Amount carried forward				$2,096,600 00

Amount brought forward				$2,096,600 00
Aug.	1, 1938	4		17,000 00
May	1, 1941	3½		16,500 00
Dec.	1, 1941	3½		10,000 00
				$2,140,100 00

The bonded Water Debt matures as follows:—

Issued serially, provided for in the annual tax levy.

May	1, 1916	3½		$12,500 00
July	1, 1916	4		500 00
July	1, 1916	4		3,500 00
Sept.	1, 1916	3½		1,000 00
Nov.	1, 1916	4		500 00
Dec.	1, 1916	3½		1,000 00
Feb.	1, 1917	4		1,500 00
Mar.	1, 1917	4		500 00
May	1, 1917	3½		12,500 00
July	1, 1917	4		1,500 00
July	1, 1917	4		2,000 00
Sept.	1, 1917	3½		1,000 00
Nov.	1, 1917	3½		75,000 00
Nov.	1, 1917	4		500 00
Dec.	1, 1917	3½		1,000 00
Feb.	1, 1918	4		1,500 00
Mar.	1, 1918	4		500 00
May	1, 1918	3½		12,500 00
July	1, 1918	4		2,000 00
July	1, 1918	4		1,500 00
Sept.	1, 1918	3½		1,000 00
Nov.	1, 1918	4		500 00
Dec.	1, 1918	3½		1,000 00
Feb.	1, 1919	4		1,500 00
Mar.	1, 1919	4		500 00
May	1, 1919	3½		12,500 00
July	1, 1919	4		2,000 00
July	1, 1919	4		1,500 00
Sept.	1, 1919	3½		1,500 00
Nov.	1, 1919	4		500 00
Dec.	1, 1919	3½		1,000 00
Feb.	1, 1920	4		1,500 00
Mar.	1, 1920	4		500 00
May	1, 1920	3½		12,500 00
July	1, 1920	4		2,000 00
Amount carried forward				$172,500 00

Amount brought forward				$172,500 00
July	1, 1920	4	1,500 00	
Sept.	1, 1920	3½	1,000 00	
Nov.	1, 1920	4	500 00	
Dec.	1, 1920	4	1,000 00	
Feb.	1, 1921	4	1,500 00	
Mar.	1, 1921	4	500 00	
May	1, 1921	3½	12,500 00	
July	1, 1921	4	1,500 00	
July	1, 1921	4	2,000 00	
Sept.	1, 1921	3½	1,000 00	
Nov.	1, 1921	4	500 00	
Dec.	1, 1921	3½	1,000 00	
Feb.	1, 1922	4	1,500 00	
Mar.	1, 1922	4	500 00	
May	1, 1922	3½	12,500 00	
July	1, 1922	4	2,000 00	
July	1, 1922	4	1,500 00	
Sept.	1, 1922	3½	1,000 00	
Nov.	1, 1922	4	500 00	
Dec.	1, 1922	3½	1,000 00	
Feb.	1, 1923	4	1,500 00	
Mar.	1, 1923	4	500 00	
May	1, 1923	3½	12,500 00	
July	1, 1923	4	2,000 00	
July	1, 1923	4	1,500 00	
Sept.	1, 1923	3½	1,000 00	
Nov.	1, 1923	4	2,000 00	
Dec.	1, 1923	3½	1,000 00	
Feb.	1, 1924	4	1,500 00	
Mar.	1, 1924	4	500 00	
May	1, 1924	3½	12,500 00	
July	1, 1924	4	2,000 00	
July	1, 1924	4	1,500 00	
Sept.	1, 1924	4	1,000 00	
Nov.	1, 1924	4	500 00	
Dec.	1, 1924	3½	1,000 00	
Feb.	1, 1925	4	1,500 00	
Mar.	1, 1925	4	500 00	
May	1, 1925	3½	12,500 00	
July	1, 1925	4	2,000 00	
July	1, 1925	4	1,500 00	
Sept.	1, 1925	3½	1,000 00	
Nov.	1, 1925	4	500 00	
Dec.	1, 1925	3½	1,000 00	
Feb.	1, 1926	4	1,500 00	
Mar.	1, 1926	4	500 00	
July	1, 1926	4	2,000 00	
July	1, 1926	4	1,500 00	
Amount carried forward				$286,000 00

Amount brought forward				$286,000 00
Sept.	1, 1926	3½	1,000 00	
Nov.	1, 1926	4	500 00	
Dec.	1, 1926	3½	1,000 00	
Feb.	1, 1927	4½	1,500 00	
Mar.	1, 1927	4	500 00	
July	1, 1927	4	2,000 00	
July	1, 1927	4	1,500 00	
Sept.	1, 1927	4	1,000 00	
Nov.	1, 1927	4	500 00	
Dec.	1, 1927	3½	1,000 00	
Feb.	1, 1928	4	1,500 00	
Mar.	1, 1928	4	500 00	
July	1, 1928	4	2,000 00	
July	1, 1928	4	1,500 00	
Sept.	1, 1928	3½	1,000 00	
Nov.	1, 1928	3½	500 00	
Dec.	1, 1928	3½	1,000 00	
Feb.	1, 1929	4	1,500 00	
Mar.	1, 1929	4	500 00	
July	1, 1929	4	2,000 00	
July	1, 1929	4	1,500 00	
Sept.	1, 1929	3½	1,000 00	
Nov.	1, 1929	4	500 00	
Dec.	1, 1929	4	1,000 00	
Feb.	1, 1930	4	1,500 00	
Mar.	1, 1930	4	500 00	
July	1, 1930	4	2,000 00	
July	1, 1930	4	1,500 00	
Sept.	1, 1930	3½	1,000 00	
Nov.	1, 1930	4	500 00	
Dec.	1, 1930	3½	1,000 00	
Feb.	1, 1931	4	500 00	
Mar.	1, 1931	4	500 00	
July	1, 1931	4	2,000 00	
July	1, 1931	4	1,500 00	
Sept.	1, 1931	3	1,000 00	
Nov.	1, 1931	4	500 00	
Dec.	1, 1931	3½	1,000 00	
Feb.	1, 1932	4	500 00	
Mar.	1, 1932	4	500 00	
July	1, 1932	4	2,000 00	
July	1, 1932	4	1,500 00	
Sept.	1, 1932	3½	1,000 00	
Nov.	1, 1932	4	500 00	
Dec.	1, 1932	3½	1,000 00	
Feb.	1, 1933	4	500 00	
Mar.	1, 1933	4	500 00	
Amount carried forward				$335,500 00

Amount brought forward				$335,500 00
July	1, 1933	4	2,000 00	
July	1, 1933	4	1,500 00	
Sept.	1, 1933	3½	1,000 00	
Nov.	1, 1933	4	500 00	
Dec.	1, 1933	3½	1,000 00	
July	1, 1934	4	1,500 00	
Sept.	1, 1934	3½	1,000 00	
Dec.	1, 1934	3½	1,000 00	
July	1, 1935	4	1,500 00	
Sept.	1, 1935	3½	1,000 00	
Dec.	1, 1935	3½	1,000 00	
July	1, 1936	4	1,500 00	
Sept.	1, 1936	3½	1,000 00	
July	1, 1937	4	1,500 00	
Sept.	1, 1937	3½	1,000 00	
July	1, 1938	4	1,500 00	
July	1, 1939	4	1,500 00	
July	1, 1940	4	1,500 00	
July	1, 1941	4	1,500 00	
July	1, 1942	4	1,500 00	
July	1, 1943	4	1,500 00	
July	1, 1944	4	1,500 00	
				$364,000 00

REPORT OF THE FINANCE COMMITTEE.

The annual report of the Committee on Finance is herewith submitted, it being for the financial year ending March 31, 1916.

Following is a summarized statement of the annual estimates as reported to the City Council at the beginning of the year:—

1—General Government		$151,182 42
2—Protection to Life and Property		436,357 66
3—Health and Sanitation		287,273 69
4—Highways and Bridges		265,457 80
5—Charities		103,249 60
6—Soldiers' Benefits		33,000 00
7—Education		692,932 78
8—Libraries		39,030 91
9—Recreation		38,835 00
10—Cemeteries		21,000 00
11—Interest		376,317 63
12—Sinking Fund		268,676 58
13—Serial Loans		62,200 00
14—Unclassified		81,550 92
15—Municipal Industries		379,961 26
		$3,231,026 25
Estimated Revenue	$890,695 00	
Less Estimated School Revenue and Water Surplus, April 1, 1914	43,038 74	
		847,656 26
Leaving amount to be provided for		$2,383,369 99

The Committee recommends that this amount be provided for: By assessment upon the polls and estates of the inhabitants of Cambridge, etc. for the current year, being the amount required for Municipal, School and Public Safety Departments for the year.

Orders were recommended in accordance with the foregoing estimates and the same were adopted by the City Council.

President Peter J. Nelligan of the Board of Aldermen, Councilman William J. Lynch and President Arthur S. Browne of the Common Council were appointed a sub-committee to count the cash in the treasury at the close of business on the first day of January, 1916. They attended to the duty assigned to them and reported as follows:

To the Committee on Finance:

Gentlemen: The sub-committee appointed to examine the cash in the hands of the City Treasurer at the close of business on Jan. 1, 1916, would respectfully report as follows:

Actual cash and business checks in City Treasurer's office amount to		$4,574 22
Also certificates of deposit showing balances at the close of business to the credit of the City Treasurer.		
1	Harvard Trust Company, of Cambridge	$467,946 11
2	Cambridge Trust Company, of Cambridge	1,392 26
3	Charles River Trust Company of Cambridge	1,290 65
4	Central Trust Company, of Cambridge	1,620 48
5	Guaranty Trust Company, of Cambridge	3,303 19
6	Lechemere National Bank, Cambridge	584 61
7	National City Bank, Cambridge	2,160 58
8	Fidelity Trust Company, of Boston	6,658 25
9	Charlestown Trust Company, of Boston	603 08
10	Liberty Trust Company, of Boston	245 36
11	Prudential Trust Company, of Boston	5,681 98
12	Massachusetts Trust Company, of Boston	1,030 92
13	Commonwealth Trust Company, of Boston	1,493 21
14	Old South Trust Company, of Boston	541 72
15	Beacon Trust Company, of Boston	371 74
16	Paul Revere Trust Company, of Boston	1,259 54
		$500,757 90
	Less outstanding checks	20,182 56
		$480,575 34

Signed PETER J. NELLIGAN,
ARTHUR S. BROWNE,
WILLIAM J. LYNCH.

To the Committee on Finance:

Gentlemen: The sub-committee appointed to count and examine the cash in the hands of the City Treasurer at the close of business on March 31, 1916, would respectfully report as follows:

Actual cash and business checks in City Treasurer's office amount to		$3,579 06
Also certificates of deposit showing balances at the close of business March 31, 1916, to the credit of the City Treasurer.		
1	Harvard Trust Company, of Cambridge	$48,235 71
2	Cambridge Trust Company, of Cambridge	1,398 63
3	Central Trust Company, of Cambridge	1,639 11
4	Charles River Trust Company, of Cambridge	1,298 11
5	National City Bank, of Cambridge	2,160 85
6	Lechmere National Bank, of Cambridge	587 63
7	Guaranty Trust Company, of Cambridge	24,572 53
8	Liberty Trust Company, of Boston	245 36
9	Prudential Trust Company, of Boston	724 37
10	Massachusetts Trust Company, of Boston	1,038 38
11	Commonwealth Trust Company, of Boston	1,503 78
12	Fidelity Trust Company, of Boston	855 60
13	Old South Trust Company, of Boston	545 43
Amount carried forward		$88,384 55

Amount brought forward		$88,384 55
14 Charlestown Trust Company, of Boston		606 89
15 Beacon Trust Company, of Boston		373 16
16 State Street Trust Company, of Boston		1,266 85
		$90,631 45
Less outstanding checks		19,318 14
Cash on hand, March 31, 1916		$71,313 31

April 28, 1916.

After the above examination by your Committee, additional entries belonging to the financial year ending March 31, 1916, were made as follows:

RECEIPTS.

On account:

Street department—offal	$36 40	
Building department—permits	27 25	
Court fines	562 66	
Interest	346 00	
Street department—offal	28 00	
Licenses	8 50	
City Clerk's department	62 60	
Law department	10 00	
Taxes, 1915—personal	55 20	
Taxes, 1915—real estate	121 90	
Assessments, street sprinkling, 1915	3 28	
Assessments, moth extermination, 1915	31	
		1,262 10
Which added to the City Treasurer's cash balance as above makes a total of		$72,575 41

EXPENDITURES.

On account:

Damages to personal property	$211 80	
Draft No. 502, ten day discount	22,345 92	
Draft, No. 503, weekly pay roll	2,431 42	
Draft, No. 504, special discount	1,638 52	
Abatement—Tax 1915	177 10	
" Street sprinkling	3 28	
" Moth extermination	31	
Surplus water revenue (to Commissioners of Sinking Fund)	32,400 69	
Street loan, Bond No. 163	5,000 00	
		$64,209 04
Which deducted from the foregoing total of receipts shows a balance in the City Treasurer's hands as of March 31, 1916, of		$8,366 37

The sub-committee also examined the total cash receipts and expenditures as per City Treasurer's ledger and find the same to be as follows:

Cash balance, March 31, 1916	61,889 66
Amount carried forward	$61,889 66

Amount brought forward	$61,889 66
Cash receipts for the year ending March 31, 1916	6,508,472 71
Total cash for year ending March 31, 1916	$6,570,362 37
Total cash expenditures for year ending March 31, 1916	6,561,996 00
Which deducted from total receipts shows a cash balance as of March 31, 1916, as above of	$8,366 37

The above statements of receipts and expenditures were verified by comparison with the City Auditor's statement for the year ending March 31, 1916. The sub-committee also examined the securities belonging to the Cemetery Fund and Sarah E. Russell Fund, both held in trust by the City Treasurer, and find the same to be correct.

EDWARD J. DUNPHY,
WILLIAM M. HOGAN,
CLARENCE W. KIDDER,
Sub-Committee on Finance.

The foregoing report was transmitted for inclusion in the general report of the Committee hereinbefore given.

EDWARD J. DUNPHY,
WILLIAM M. HOGAN,
CLARENCE P. KIDDER,
F. D. COADY,
GEORGE F. MULLETT,
RALPH R. STRATTON,
PETER J. NELLIGAN.

Annual Report of the City Auditor

City Auditors' Office,

April 1, 1916.

To the Honorable, the City Council:—

The undersigned herewith presents a statement of the receipts and payments of the City of Cambridge for the year beginning on the first day of April, 1915, and ending on the thirty-first day of March, 1916.

The first part of this report is devoted to an exhibit arranged upon the Schedules for Uniform Municipal Accounting as issued by the Bureau of Statistics by the Commonwealth of Massachusetts. Following these schedules are presented detailed statements arranged in the same order, together with the usual matters given in the Auditor's report, including a schedule of the city property.

Respectfully submitted,

CHARLES H. THURSTON,

City Auditor.

REPORT OF CITY AUDITOR

FOR THE YEAR ENDING MARCH 31, 1916

SCHEDULE A—I

RECEIPTS AND PAYMENTS OF THE FISCAL YEAR

Consolidated Statement

Cash balance at the beginning of the year		$61,889 66
Excess of temporary receipts		200,000 00
		$261,889 66
Actual payments* during the year	$4,509,384 04	
Actual receipts* during the year	4,255,860 75	
Excess of payments		253,523 29
Cash balance at end of year		$8,366 37

*Omitting temporary accounts.

SCHEDULE A—II

General Exhibit of Receipts and Payments of the Fiscal Year

	Receipts	Payments
*Revenue Accounts (Operation and Maintenance)	$3,462,808 96	$3,484,524 94
*Non-Revenue Accounts (Construction, etc.)	394,256 73	626,977 49
Agency Trust and Investment Transactions	398,795 06	397,881 61
TOTAL ACTUAL CASH TRANSACTIONS OF THE YEAR (omitting temporary accounts)	$4,255,860 75	$4,509,384 04
Temporary Loans	1,650,000 00	1,450,000 00
Redemption of Debt from Sinking Funds	520,000 00	520,000 00
	$6,425,860 75	$6,479,384 04

Actual Financial Result of the Operation and Maintenance of the City for the Year

Revenue Receipts, as above, from taxation and other sources, not including money borrowed		$3,462,808 96
Revenue payments, as above, for operation and maintenance (running expenses)		3,484,524 94
Excess of Revenue Payments for the year		$21,715 98
Excess of Non-Revenue Payments	$232,720 76	
Excess of Agency Transactions and Temporary Loans	200,913 45	
		31,807 31
Excess of payments		$53,523 29

SCHEDULE A—III

RECEIPTS

Fiscal Year Ending March 31, 1916

REVENUE

General

I. Taxes:		
1. Property	$2,529,945	37
2. Corporation	171,231	88
3. Street Railway (exclusive of Boston Elevated excise tax)	46,529	98
4. Bank	14,311	96
II. Licenses and Permits:		
a. Licenses:		
1. Liquor	2	50
2. All other	5,217	00
b. Permits:		
1. Marriage	1,372	00
2. All other	4,276	75
III. Fines and Forfeits:		
1. Court	3,156	43
2. Contract violations	166	00
IV. Grants and Gifts:		
a. From State, for Education:		
1. Aid to Industrial Schools	5,170	16
b. From County:		
1. Dog Licenses for Schools or Libraries	3,039	12
V. All other General Revenue:		

Commercial Revenue

VI. Special Assessments:		
a. To meet expenses for:		
1. Street Sprinkling	34,868	59
2. Moth Extermination	1,907	66
b. To meet outlays for:		
1. Sewers	6,346	17
2. Sidewalks and curbing	4,616	81
VII. Privileges:		
1. Public Service	14,229	21
2. Minor	400	00
VIII. Departmental:		
1. General Government	4,838	15
2. Protection of Persons and Property	966	41
3. Health and Sanitation	44,434	89
4. Highways	1,952	72
5. Charities	28,124	37
6. Soldiers' Benefits	12,387	00
7. Schools	5,814	32
8. Libraries	1,178	77
9. Recreation	2,491	54
10. Pensions		
11. Unclassified	2,629	24
IX. Public Service Enterprises:		
1. Water	409,656	42
2. All other	297	08
Amount carried forward	$3,361,558	20

Schedule A—III—Continued

PAYMENTS

Fiscal Year Ending March 31, 1916

Maintenance		
I. Departmental:		
1. General Government		$135,495 31
2. Protection of Persons and Property		417,387 47
3. Health and Sanitation		335,200 41
4. Highways		277,114 14
5. Charities		146,588 53
6. Soldiers' Benefits		32,572 87
7. Schools		701,694 66
8. Libraries		38,474 21
9. Recreation		83,034 06
10. Pensions		41,099 14
11. Unclassified		11,463 84
II. Public Service Enterprises:		
1. Water		156,668 39
III. Cemeteries		21,021 77
IV. Administration of Trust Funds		
V. Interest:		
1. On Loans in Anticipation of Revenue		15,398 66
2. On Loans for General Purposes		349,945 74
3. On Trust Funds Used		1,450 00
4. On Loans for Public Service Enterprises		103,197 75
5. On Loans for Cemeteries		280 00
6. Metropolitan Interest Requirements:		
a. Sewer		50,331 94
b. Park		56,211 78
7. All Other		660 00
Outlays		
I. Departmental:		
1. General Government		
2. Protection of Persons and Property		22,546 20
3. Health and Sanitation		99,154 62
4. Highways		268,448 28
5. Charities		79,961 64
6. Soldiers' Benefits		
7. Schools		66,792 62
8. Libraries		
9. Recreation		50,361 81
10. Pensions		
11. Unclassified		
II. Public Service Enterprises:		
1. Water		39,712 32
III. Cemeteries		
IV. Administration of Trust Funds		
Amount carried forward		$3,602,267 56

Schedule A—III—Continued

RECEIPTS.

Fiscal year ending Mach 31, 1916.

Commercial—Concluded.

Amount brought forward	$3,361,558 20
X. Cemeteries	23,045 30
XI. Administration of Trust Funds	
XII. Interest	31,715 67

Offset to Outlays:

I. Departmental:	
1. General Government	
2. Protection of Persons and Property	
3. Health and Sanitation	
4. Highways	40,119 50
5. Charities	
6. Soldiers' Benefits	
7. Schools	
8. Libraries	
9. Recreation	
10. Pensions	
11. Unclassified	
II. Public Service Enterprises:	
1. Water	6,370 29
III. Cemeteries	

Municipal Indebtedness

1. Loans in Anticipation of Revenue	1,650,000 00
2. Loans for General Purposes	389,500 00
3. Premiums	4,756 73
From Sinking Funds	520,000 00

Agency, Trust and Investment Transactions

I. Agency:	
a. Taxes:	
1. State	256,327 50
2. Non-resident Bank	2,237 80
3. County	133,270 62
b. Liquor Licenses Collected for State	.50
II. Trust:	
1. Perpetual Care Funds	3,434 51
2. Private Trust Funds and Accounts	3,524 13
Total .Receipts	$6,425,860 75

Schedule A—III—Continued

PAYMENTS.

Fiscal year ending Mach 31, 1916.

Amount brought forward		$3,602,267 56
V.	Interest	
VI.	Municipal Indebtedness:	
	1. Loans in Anticipation of Revenue	1,450,000 00
	2. Bonds and Notes from Sinking Funds:	
	a. General	120,000 00
	b. Public Service Enterprises	400,000 00
	3. Bonds and Notes from Revenue:	
	a. General	62,200 00
	b. Public Service Enterprises	20,500 00
	4. Metropolitan Sinking Fund and Serial Loan Requirements:	
	a. Sewer	25,239 17
	b. Park	13,163 43
VII.	To Sinking Funds:	
	1. From Taxes, Earnings, etc	388,132 27
VIII.	Agency, Trust and Investment Transactions:	
	I. Agency:	
	1. Taxes:	
	a. State	256,327 50
	b. Non-resident Bank	2,237 80
	c. County	133,270 62
	2. Liquor Licenses to State	50
	II. Trust:	
	1. Perpetual Care Fund	3,434 51
	2. Private Trust Funds and Accounts	2,610 68
Total payments		$6,479,384 04

Schedule A—III—Continued

RECAPITULATION—RECEIPTS

Revenue:	
For Current Charges	$3,405,356 19
For Outlays	10,962 98
Offsets to Outlays	46,489 79
Municipal Indebtedness	2,044,256 73
From Sinking Funds	520,000 00
Agency, Trust and Investment Transactions	398,795 06
Total Receipts	$6,425,860 75
Balance on hand, beginning of year	61,889 66
GRAND TOTAL	$6,487,750 41

Schedule A—III—Continued

RECAPITULATION—PAYMENTS

Current Charges against Revenue:	
Maintenance and Interest	$2,975,290 07
Debt	121,102 60
Sinking Funds	388,132 27
Outlays	626,977 49
Debt from Sinking Funds	520,000 00
Temporary Loans	1,450,000 00
Agency, Trust and Investment Transactions	397,881 61
Total Payments	$6,479,384 04
Balance on hand, end of year	8,366 37
	$6,487,750 41

SCHEDULE A—IV.

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
GENERAL REVENUE			
1. TAXES			
Current Year:			
1. Property	$2,173,434 04		
2. Poll			
Previous Years:			
3. Property	356,511 33		
4. Poll			
From the State .			
5. Corporation	171,231 88		
6. Street Railway (exclusive of Boston Elevateed excise tax)..	46,529 98		
7. Bank	14,311 96		
Total from Taxes	$2,762,019 19		$2,762,019 19
2. LICENSES AND PERMITS			
Licenses:			
8. Liquor	$2 50		
9. All Others	5,217 00		
Permits:			
10. Marriage	1,372 00		
11. All Other	4,276 75		
Total from Licenses and Permits..	$10,868 25		10,868 25
3. FINES AND FORFEITS			
12. Court	$3,156 43		
13. Department Penalties			
14. Contract Violations	166 00		
Total from Fines and Forfeits	$3,322 43		3,322 43
Total forward			$2,776,209 87

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			$2,776,209 87
4. GRANTS AND GIFTS			
Grants from Other Civil Divisions:			
15. From State, for Education ..			
a. Support of Public Schools..			
b. Aid of High Schools			
c. Aid to Industrial Schools...	$5,170 16		
d. High School Tuition			
e. Union Superintendency			
16. From State, for Armories			
17. From State, for Highway Purposes			
18. From State, for Other Purposes			
a. Inspector of Animals			
b. Protection against Forest Fires			
c.			
d.			
19. From County (Dog Licenses), for Schools or Libraries	3,039 12		
Gifts from Individuals:			
20. For Expenses			
21. For Outlays			
Total from Grants and Gifts	$8,209 28		8,209 28
5. ALL OTHER GENERAL REVENUE			
22.			
23.			
Total from All Other General Revenue			
Total forward			$2,784,419 15

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			$2,784,419 15
COMMERCIAL REVENUE			
6. SPECIAL ASSESSMENTS*			
24. Street Sprinkling	$34,868 59		
25. Moth Extermination	1,907 66		
26. Sewers		$6,346 17	
27. Sidewalks and Curbing		4,616 81	
28. Other Purposes			
Total from Special Assessments ...	$36,776 25	$10,962 98	47,739 23
7. PRIVILEGES			
29. Public Service	$14,229 21		
30. Minor	400 00		
Total from Privileges	$14,629 21		14,629 21
Total forward			$2,846,787 59

*Assessments appropriated for sinking fund purposes or for current expenses should be entered in the first column.

No entries to be made on this page.

See STATE REPORT

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,846,787 59
8. DEPARTMENTAL			
8a. General Government			
Legislative			
31. Aldermen and Council; Moderator			
Executive			
32. Mayor; Commission; Selectmen			
Financial			
33. Auditor, Accountant, and Auditing			
34. Treasurer	$3,384 48		
35. Collector			
36. Assessors			
37. License Commissioners			
38. Other Finance Offices and Accounts			
Other General Departments			
39. Law	10 00		
40. City or Town Clerk	1,396 70		
General Government forward	$4,791 18		
Total forward			$2,846,787 59

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
1. DEPARTMENTAL			
1a. General Government			
Legislative:			
1. Aldermen and Council; Moderator			
a. Salaries and Wages	$6,533 73		
b. Other Expenses	4,512 12		
Executive:			
2. Mayor; Commission; Selectmen			
a. Salaries and Wages	6,021 80		
b. Other Expenses	1,380 79		
Financial:			
3. Auditor, Accountant, and Auditing			
a. Salaries and Wages	6,162 50		
b. Other Expenses	404 95		
4. Treasurer			
a. Salaries and Wages	13,982 28		
b. Other Expenses	3,894 89		
5. Collector			
a. Salaries and Wages			
b. Other Expenses			
6. Assessors			
a. Salaries and Wages	19,829 30		
b. Other Expenses	3,176 82		
7. License Commissioners			
a. Salaries and Wages			
b. Other Expenses			
8. Other Finance Offices and Accounts			
a. Sinking Fund Commissioners			
b. Miscellaneous	2,205 00		
Other General Departments			
9. Law			
a. Salaries and Wages	3,945 33		
b. Other Expenses	1,323 31		
10. City or Town Clerk			
a. Salaries and Wages	7,894 46		
b. Other Expenses	990 86		
General Government forward	$82,258 14		

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,846,787 59
General Government forward	$4,791 18		
41. City Messenger			
42. Public Works			
43. Engineering			
44. Superintendent of Buildings ..			
45. Election and Registration	6 30		
46. Other General Departments ..			
Municipal Buildings			
47. City or Town Hall	40 67		
Total from General Government ..	4,838 15		4,838 15
8b. Protection of Persons and Property			
Police Department			
48. Services of Officers			
49. Sale of Materials	1 00		
50. Miscellaneous	15 60		
Protection of Persons and Property forward	$16 60		
Total forward			$2,851,625 74

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward	$82,258 14		
General Government forward			
11. City Messenger			
a. Salaries and Wages	2,488 00		
b. Other Expenses	304 95		
12. Public Works			
a. Salaries and Wages			
b. Other Expenses			
13. Engineering			
a. Salaries and Wages	4,315 01		
b. Other Expenses	512 56		
14. Superintendent of Buildings			
a. Salaries and Wages	3,260 00		
b. Other Expenses	885 90		
15. Election and Registration			
a. Salaries and Wages	10,795 19		
b. Other Expenses	7,092 35		
16. Other General Departments			
a. Civil Service Labor Registration	313 86		
b. Workingmen's Compensation	709 45		
Municipal Buildings			
17. City or Town Hall			
a. Salaries and Wages	13,124 08		
*b. Other Expenses	9,435 82		
Total for General Government	$135,495 31		$135,495 31
1b. Protection of Persons and Property			
Police Department			
18. Salaries and Wages	$192,776 88		
19. Horses and Care of Same	1,114 50		
*20. Equipment and Repairs	2,361 84		
21. Fuel and Light	757 31		
22. Maintenance of Buildings and Grounds	594 68		
*23. New Buildings			
24. Other Expenses	1,911 22		
Protection of Persons and Property forward	$199,516 43		
Total forward			$135,495 31

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,851,625 74
Protection of Persons and Property			
forward	$16 60		
Fire Department			
51. Sale of Materials	163 12		
52. Miscellaneous			
Militia			
53. Armories			
54. Rifle Ranges			
Inspection			
55. Inspection of Buildings			
56. Inspection of Wires			
57. Sealing of Weights and Measures	705 62		
Forestry			
58. Insect Pest Extermination			
59. Planting and Trimming Trees..	49 75		
60. Forest Fires			
Other Protection of Persons and Property			
61. Bounties			
62. Fire and Police, Telegraph and and Inspection of Wires	31 02		
63.			
Total from Protection of Persons and Property	$966 11		966 11
Total forward			$2,852,591 85

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			$135,495 31
Protection of Persons and Property forward	$199,516 43		
Fire Department			
25. Salaries and Wages	135,605 30		
26. Horses and Care of Same	12,389 46		
*27. Equipment and Repairs	5,966 11	$22,546 20	
28. Hydrant Service			
29. Fuel and Light	3,803 33		
30. Maintenance of Buildings and Grounds	2,367 95		
*31 New Buildings			
32. Other Expenses	335 34		
Commissioner of Public Safety			
32. a. Salaries	6,093 17		
32. b. Other Expenses	3,680 87		
Militia			
33. Armories			
34. Rifle Ranges	1,389 63		
Inspection			
35. Inspection of Buildings	6,148 63		
36. Inspection of Wires			
37. Sealing of Weights and Measures	5,196 15		
Forestry			
38. Insect Pest Extermination			
39. Planting and Trimming Trees.	15,734 12		
40. Forest Fires			
Other Protection of Persons and Property			
41. Bounties			
42. Fish and Game Warden	50 00		
43. Fire Alarm and Telegraph and Inspection of Wires	18 210 88		
44. Fire Prevention Acts, 1914. Chap. 195	900 10		
Total for Protection of Persons and Property	$417,387 47	$22,546 20	439,933 67
Total forward			$575,428 98

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,852,591 85
8c. Health and Sanitation			
Health			
64. Quarantine and Contagious Disease Hospitals	$4,846 97		
65. Tuberculosis	20,372 95		
66. Miscellaneous	708 48		
67. Inspection Animals	50 00		
Sanitation			
68. Sewers and Sewage Disposal ..	173 68		
69. Sewer Construction			
70. Refuse and Garbage Disposal..	18,282 81		
71. Street Cleaning			
Other Health and Sanitation			
72.			
73.			
Total from Health and Sanitation..	$44,434 89		44.434 89
Total forward'			$2,897,026 74

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			$575,428 98
1c. Health and Sanitation			
Health			
45. General Administration	$6,410 93		
*46. Quarantine and Contagious Disease Hospitals	22,936 73	$54,409 40	
*47. Tuberculosis	29,265 44		
48. Vital Statistics	1,103 75		
49. Other Expenses	8,482 00		
50. Inspection			
a. Inspection of School Children	4,533 20		
b. Inspection of Animals	1,753 89		
c. Inspection of Meat and Provisions	2,338 29		
d. Inspection of Milk and Vinegar	4,226 65		
Sanitation			
51. Sewer Maintenance and Operation	15,564 03		
52. Metropolitan Sewer Maintenance	37,104 11		
*53. Sewer Construction		41,679 22	
*54. Refuse and Garbage Disposal..	138,262 22	2,992 50	
*55. Street Cleaning	62,724 82	73 50	
Other Health and Sanitation			
*56. Sanitaries and Public Convenience Stations	17 77		
57. Care of Brooks and Streams ..			
58. Draining of Ponds			
59. Abatement Smoke Nuisance ..	476 58		
Total for Health and Sanitation ..	$335,200 41	$99,154 62	434,355 03
Total forward			$1,009,784 01

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,897,026 74
8d. Highways			
74. General	$780 34		
75. Construction		$40,119 50	
76. Sidewalks and Curbing	1,113 54		
77. Snow and Ice Removal			
78. Sprinkling			
a. Water	58 84		
b. Other			
79. Lighting			
80. Miscellaneous			
Total from Highways	$1,952 72	$40,119 50	42,072 22
8e. Charities			
81. Almshouse or Town Farm			
a. Sale of Produce and Stock	$2,236 91		
b. Board	97 06		
c. Miscellaneous			
82. Reimbursements for Relief Given			
a. From Individuals	596 42		
b. From Other Cities and Towns	6,727 28		
c. From the State	9,448 81		
83. Reimbursements for Mothers' Aid			
a. From Individuals			
b. From Other Cities and Towns			
c. From the State	9,017 89		
84. Municipal General Hospitals			
85. Miscellaneous			
Total from Charities	$28,124 37		28,124 37
Total forward			$2,967,223 33

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			$1,009,784 01
1d. Highways			
60. General Administration	$7,369 35		
61. General Highway Expenditures	$139,441 58	$4,000 00	
*62. Construction		252,657 78	
*63. Sidewalks and Curbing	7,228 85	11,790 50	
64. Snow and Ice Removal	12,854 25		
*65. Sprinkling			
a. Water	17,041 76		
b. Other	22,190 74		
66. Lighting	70,987 61		
67. Other Expenses			
a. Town Pump			
b. Signs, Guide Boards, and Street Numbering			
c.			
Total for Highways	$277,114 14	$268,448 28	545,562 42
1e. Charities			
68. General Administration	$7,378 31		
*69. Almshouse or Town Farm	40 427 01		
70. Outside Relief by City or Town	59,540 26		
71. Relief given by Other Cities and Towns	4,630 28		
72. Mothers' Aid			
a. Relief given by City or Town	33,317 00		
b. Relief given by Other Cities and Towns	1,295 67		
73. Hospitals			
*a. Municipal General		$79,961 64	
b. Private or Quasi-public			
74. Other Expenses			
Total for Charities	$146,588 53	$79,961 64	226,550 17
Total forward			$1,781,896 60

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,967,223 33
8f...Soldiers' Benefits			
86. State Aid	$11,722 00		
87. Military Aid	221 00		
88. Soldiers' Burials	444 00		
89. Soldiers' Relief			
Total from Soldiers' Benefits.....	$12,387 00		12,387 00
8g. Schools			
90. Tuition and Transportation of State Wards	$1,049 50		
91. Other Tuition	1,054 50		
92. Sale of Text Book and Supplies	408 71		
93. Miscellaneous	3,301 61		
Total from Schools.....	$5,814 32		5,814 32
8h...Libraries			
94. Fines, Rentals, and Sales.....	$1,178 77		
95. Miscellaneous			
Total from Libraries.....	$1,178 77		1,178 77
Total forward			$2,986,603 42

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			$1,781,896 60
1f. Soldiers' Benefits			
75. General Administration	$771 56		
76. State Aid	11,946 00		
77. Military Aid	646 00		
78. Soldiers' Burials	824 70		
79. Soldiers' Relief	18,384 61		
Total for Soldiers' Benefits	$32,572 87		$32,572 87
1g. Schools			
80. General Expenses			
a. Administrative Salaries	$9,000 50		
b. Other General Salaries	13,077 33		
c. Other General Expenses	8,547 70		
81. Teachers' Salaries	537,739 14		
82. Text Books and Supplies	31,941 64		
83. Tuition	70 43		
84. Transportation	396 00		
85. Support of Truants	225 14		
86. Janitors' Services	52,831 67		
87. Fuel and Light	20,217 03		
88. Maintenance of Buildings and grounds	22,964 10		
*89. New Buildings		$64,788 78	
*90. Furniture and Furnishings	1,474 93	2,003 84	
91. Rent	256 83		
92. Other Expenses	2,951 62		
Total for Schools	$701,694 06	$66,792 62	768,486 68
1h. Libraries			
93. Salaries and Wages	$20,200 33		
94. Books, Periodicals, etc.	9,578 30		
95. Binding	1,533 05		
96. Fuel and Light	1,722 41		
97. Buildings	3,357 48		
98. Other Expenses	2,082 64		
Total for Libraries	$38,474 21		38,474 21
Total forward			$2,621,430 36

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,986,603 42
8i. Recreation			
96. Parks and Gardens	$542 00		
97. Playgrounds and Gymnasia ..	945 64		
98. Bathhouses and Beaches	703 90		
99. Celebrations and Entertainments			
a. Independence Day	300 00		
Total from Recreation	$2,491 54		2,491 54
Total forward			$2,989,094 96

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			$2,621,430 36
1i. Recreation			
99. General Administration			
a. Salaries and Wages	$3,040 00		
b. Other Expenses	914 66		
100. Parks and Gardens			
a. Salaries and Wages	18,967 07		
*b. Improvements and Additions		$40,507 22	
c. Metropolitan Park Maintenance	41,600 74		
d. Other Expenses	9,448 50		
101. Playgrounds and Gymnasia			
a. Salaries and Wages	3,240 25		
*b. Improvements and Additions		9,854 59	
c. Other Expenses	626 81		
102. Bathhouses and Beaches			
a. Salaries and Wages	2,428 38		
*b. Improvements and Additions			
c. Other Expenses	852 38		
103. Celebrations and Entertainments			
a. Fourth of July	1,343 54		
b. Labor Day	296 50		
c. Band Concerts			
d. All Other	275 23		
Total for Recreation	$83,034 06	$50,361 81	133,395 87
Total forward			$2,754,826 23

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,989,094 96
8j. Pensions			
100.			
Total from Pensions			
8k. Unclassified			
101. Receipts not Recorded under Previous Classifications			
a. Rent of Land, Harvard College	$2,400 00		
b. Rent of Land, Portland St..	229 24		
c.			
d.			
Total from Unclassified	2,629 24		2,629 24
Total forward			$2,991,724 20

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			$2,754,826 23
1j. Pensions			
104. Retirement made from:			
a. Clerk of Committee Department	$450 00		
b. Inspection Buildings Department	600 00		
c. Police Department	8,599 24		
d. Fire Department	12,033 89		
e. House Offal Department	2,390 96		
f. Street Department	4,801 60		
g. City Farm Department	90 00		
h. Soldiers' Benefits Department	381 29		
i. School Janitors' Department	1,748 00		
j. School Pension Department..	10,004 16		
k.			
l.			
Total for Pensions	$41.099 14		41,099 14
1k. Unclassified			
105. Damages to Persons and Personal Property	$2,726 94		
106. Memorial Day	1,200 00		
107. City and Town Clocks	104 00		
108. Searching Parties			
109. Ice for Drinking Fountains ..	719 83		
110. Payments not Recorded under Previous Classifications			
a. Printing City or Town Reports	1,845 80		
b. Increase in Stock	147 92		
c. Industrial Commission	124 00		
d. Planning Board	492 62		
e. Indemnification of Police Officers	701 91		
f. Free Employment Bureau ..	1,099 18		
g. Auditing Special	2,301 64		
Total for Unclassified	$11,463 84		11,463 84
Total forward			$2,807,389 21

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			$2,991,724 20
9. PUBLIC SERVICE ENTERPRISES			
102. Electric			
a. Income from Sale of Light and Power			
b. Miscellaneous			
103. Gas			
a. Income from Sale of Gas			
b. Sale of By-products (coke, tar, etc.)			
c. Miscellaneous			
104. Water			
a. Income from Sale of Water.	$393,024 88		
b. Miscellaneous	16,631 54	$6,370 29	
105. All Other			
a. Markets			
b. Public Scales	17 08		
c. Docks and Wharves			
d. Ferries			
e. Herring and Alewife Fisheries			
f. Miscellaneous Municipal Hospital	280 00		
Total from Public Service Enterprises	$409,953 50	$6,370 29	416,323 79
10. CEMETERIES			
106. Sale of Lots and Graves	$10,102 18		
107. Care of Lots and Graves	12,943 12		
108. Care of Endowed Lots (Interest on Funds)			
109. Miscellaneous			
Total from Cemeteries	$23,045 30		23,045 30
11. ADMINISTRATION OF TRUST FUNDS			
110.			
111.			
112.			
Total from Administration of Trust Funds			
Total forward			$3,431,093 29

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			$2,807,389 21
2. PUBLIC SERVICE ENTERPRISES			
111. Electric			
a. Maintenance and Operation.			
*b. Construction			
112. Gas			
a. Maintenance and Operation.			
*b. Construction			
113. Water			
a. Maintenance and Operation.	$156,668 39		
b. Metropolitan Water Maintenance			
c. Construction		$39,712 32	
114. All Other			
a. Markets			
b. Public Scales			
c. Docks and Wharves			
d. Ferries			
e. Herring and Alewife Fisheries			
f. Miscellaneous		-	
Total for Public Service Enterprises	$156.668 39	$39.712 32	196.380 71
3. CEMETERIES			
115. Maintenance	$21,021 77		
*116. Improvements and Additions..			
Total for Cemeteries	$21,021 77		21,021 77
4. ADMINISTRATION OF TRUST FUNDS			
117.			
118.			
119.			
Total for Administration of Trust Funds			
Total forward			$3,024,791 69

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Indebtedness	Total
Total forward			$3,431,093 29
12. INTEREST			
113. On Deposits	$7,044 35		
114. On Deferred Taxes	24,557 35		
115. On Deferred Special Assessments	113 97		
116. On Sinking Funds			
117. On Investment Funds			
118. On Public Trust Funds*			
a. Charity			
b. School			
c. Library			
d. Cemetery (for General Care)			
e. All Other			
119. Miscellaneous			
Total from Interest	$31,715 67		31,715 67
13. MUNICIPAL INDEBTEDNESS			
120. Loans in Anticipation of Revenue		$1,650,000 00	
121. Other Temporary Loans			
122. Loans for General Purposes..		389,500 00	
123. Trust Funds Used			
124. Loans for Public Service Enterprises			
125. Loans for Cemeteries			
126. Bonds Refunded, Current Year			
127. Premiums		4,756 73	
128. Unpaid Warrants or Orders of Current Year			
Total from Municipal Indebtedness.		$2,044,256 73	$2,044,256 73
Total forward			$5,507,065 69

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Indebtedness	Total
Total forward			$3,024,791 69
5. INTEREST			
120. On Loans in Anticipation of Revenue	$15,398 66		
121. On Other Temporary Loans			
122. On Loans for General Purposes	349,945 74		
123. On Trust Funds Used	1,450 00		
124. On Loans for Public Service Enterprises	103,197 75		
125. On Loans for Cemeteries	280 00		
126. Metropolitan Interest Requirements			
a. Sewer	50,331 94		
b. Park	56,211 78		
c. Water			
127. State Assessment for Interest on Account of Abolition of Grade Crossings			
128. All Other	660 00		
Total for Interest	$577,475 87		577,475 87
6. MUNICIPAL INDEBTEDNESS			
129. Loans in Anticipation of Revenue		$1,450,000 00	
130. Other Temporary Loans			
131. Bonds and Notes from Sinking Funds			
a. General			
b. Public Service Enterprises		120,000 00	
c. Cemeteries		400,000 00	
132. Bonds and Notes from Revenue			
a. General	62,200 00		
b. Public Service Enterprises	20,500 00		
c. Cemeteries			
133. Metropolitan Sinking Fund and Serial Loan Requirements			
a. Sewer	25,239 17		
b. Park	13,163 43		
c. Water			
134. State Assessment for Abolition of Grade Crossings Loan Fund			
135. Bonds Refunded, Current Year			
136. Warrants or Orders of Previous Years			
Total for Municipal Indebtedness	$121,102 60	$1,970,000 00	2,091,102 60
Total forward			$5,693,370 16

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS		Non-Revenue	Total
Total forward			$5,507,065 69
14. SINKING FUNDS			
From Commissioners to meet Loans for:			
129. General Purposes		$120,000 00	
130. Public Service Enterprises ..		400,000 00	
131. Cemeteries			
Total from Sinking Funds		$520,000 00	520,000 00
		Temporary Accounts	
15. AGENCY, TRUST, AND INVESTMENT TRANSACTIONS			
Agency			
132. Taxes			
a. State		$256,327 50	
b. Non-resident Bank		2,237 80	
c. County		133,270 62	
133. Liquor Licenses Collected for State		50	
134. Reimbursements for Abolition of Grade Crossings			
135. All Other			
Trust			
136. Perpetual Care Funds		3,434 51	
137. Other Permanent Public Trust Funds			
138. Income for Investment			
139. Private Trust Funds and Accounts		3,524 13	
Investment			
140. Sinking Fund Securities			
141. Investment Fund Securities..			
Total from Agency, Trust, and Investment Transactions		$398 795 06	398,795 06
Total forward			$6,425,860 75

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	From Revenue	From Non-Revenue	Total
Total forward			$5,693,370 16
7. SINKING FUNDS			
To Commissioners for Debt Requirements			
137. From Taxes, Earnings, etc...	$388,132 27		
138. From Special Assessments ...			
139. From Sale of Real Estate, etc.			
Total for Sinking Funds	$388,132 27		388,132 27
		Temporary Accounts	
8. AGENCY, TRUST, AND INVESTMENT TRANSACTIONS			
Agency			
140. Taxes			
a. State		$256.327 50	
b. Non-Resident Bank		2,237 80	
c. County		133,270 62	
141. Liquor Licenses Remitted to the State		50	
142. Abolition of Grade Crossings..			
143. All Other			
Trust			
144. Perpetual Care Funds		3,434 51	
145. Other Permanent Public Trust Funds			
146. Income Invested			
147. Private Trust Funds and Accounts		2,610 68	
Investment			
148. Sinking Fund Securities			
149. Investment Fund Securities..			
Total for Agency, Trust, and Investment Transactions		$397,881 61	397,881 61
Total forward			$6,479,384 04

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS		Temporary Accounts and Cash balances	Total
Total forward			$6,425,860 75
16. REFUNDS			
142. Taxes		$65,523 70	
143. Licenses		83 70	
144. Special Assessments		133 30	
145. General Departments		356 49	
146. Public Service Enterprises....		6,380 43	
147. Cemeteries			
148. Accrued Interest		2,394 11	
149. All Other			
Total Refunds		$74,871 73	74,871 73
17. TRANSFERS			
150. Departmental			
a. Treasury from Water ...		$2,000 00	
b. Law and Water		1,000 00	
c. City Home from State Aid..		225 67	
d. Cemetery from Sundry Departments		400 00	
e. Street from Sundry Departments		632 23	
f. Water from Sundry Departments		172 15	
g. Park Forestry from Sundry Departments		105 55	
h. Municipal Building from Sundry Departments		1,365 00	
i. Postage and Stationery from Sundry Departments		1,839 63	
j.			
Total Transfers		$7,740 23	7,740 23
Total forward			$6,508,472 71

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS		Temporary Accounts and Cash balances	Total
Total forward			$6,479,384 04
9. REFUNDS			
150. Taxes		$65.523 70	
151. Licenses		83 70	
152. Special Assessments		133 30	
153. General Departments		356 49	
154. Public Service Enterprises....		6,380 43	
155. Cemeteries			
156. Accrued Interest		2,394 11	
157. All Other			
Total Refunds		$74,871 73	74,871 73
10. TRANSFERS			
158. Departmental			
a. Water to Treasury		$2,000 00	
b. Water to Law		1,000 00	
c. State Aid to City Home		225 67	
d. Sundry Depts to Cemetery..		400 00	
e. Sundry Depts. to Street		632 23	
f. Sundry Depts to Water ...		172 15	
g. Sundry Depts. to Park, Forestry		105 55	
h. Sundry Depts. to Municipal Buildings		1,365 00	
i. Sundry Depts. to Postage Stationery		1,839 63	
j.			
Total Transfers		$7,740 23	7,740 23
Total forward			$6,561,996 00

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS		Cash Balances	Total
Total forward			$6,508,472 71
18. BALANCES			
151. General		$61,428 59	
152. Sinking Fund			
153. Investment Fund			
154. Perpetual Care Fund			
155. Other Public Trust Fund ...		461 07	
156. Private Trust Funds and Accounts			
Total Cash on Hand Beginning of Year		$61,889 66	61,889 66
Grand Total Receipts and Cash on Hand			$6,570,362 37

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS		Cash Balances	Total
Total forward			$6,561,996 00
11. BALANCES			
159. General		$7,905 30	
160. Sinking Fund			
161. Investment Fund			
162. Perpetual Care Fund			
163. Other Public Trust Fund		461 07	
164. Private Trust Funds and Accounts			
Total Cash on Hand End of Year..		$8,366 37	8,366 37
Grand Total Payments and Cash on Hand			$6,570,362 37

Schedule A-V

APPROPRIATIONS, RECEIPTS AND PAYMENTS

CITY INCOME

DEPARTMENTAL:

General Government.
Protection of Life and Property.
Health and Sanitation.
Highways and Bridges.
Charities.
Soldiers' Benefits.
Education.
Libraries.
Recreation.
Unclassified.

PUBLIC SERVICE ENTERPRISES:

Water Works.
Cemeteries.

ADMINISTRATION OF INVESTED FUNDS.

INTEREST.

SINKING FUND.

ABATEMENTS, TAXES.

CITY INCOME

RECEIPTS—Including Taxes and Loans

Statement in Detail of all the Income, Taxes and Loans Received on Account of the City of Cambridge During the Financial Year 1915-1916

TAXES

Taxes of 1915	$2,603,850 76	
Taxes of 1914	323,896 48	
Taxes of 1913	58,023 93	
Taxes of 1912	563 04	
Taxes of 1911	664 18	
Taxes of 1909	306.60	
From Commonwealth, for city's proportion of tax on corporations	171,231 88	
From Commonwealth, for city's proportions of tax on banks	14,311 96	
Street railway tax, including Boston Elevated Railway Co	60,759 19	
		$3,233,608 02

LICENSES AND PERMITS

For druggists' liquor licenses		$3 00	
Dance and amusement licenses		1,190 00	
Elevator operators' licenses		54 00	
Guides' licenses		14 00	
Gasoline, issued by Comm. Public Safety		372 50	
Hawkers' and pedlers' licenses		125 00	
Hawkers' and pedlers' permits, issued by Comm. Public Safety Dept		39 50	
Manicure licenses		18 00	
Milk and vinegar licenses		367 00	
Licenses issued by City Clerk:			
Auctioneers	$38 00		
Fireworks	24 00		
Intelligence Offices	78 00		
Lord's Day (ice cream, etc.)	358 00		
Pawnbrokers and small loans	100 00		
Pedlers	192 50		
Pool and bowling alleys	116 00		
Private detectives	20 00		
Junk stores and collectors	1,192 50		
Wagon, carriage and drivers	328 00		
Gasoline	200 00		
Slaughtering	3 00		
Merry-go-round	2 00		
Marriage	1,372 00		
Victualler	385 00		
		$4,409 00	
			$6,592 00
Newspaper licenses:			
Police Department	$48 30		
School Department	148 00		
		$196 30	
Amount carried forward			$3,240,200 02

City Income—Continued

Amount brought forward			$3,240,200 02

EXPENDED

For payments to State on account of liquor licenses		$.50	
Newsboys' licenses, Police Department—Refunds	$32 70		
Newsboys' licenses, School Department—Refunds	51 00		
		$83 70	
		84 20	

COURT FINES

For fines from Third District Court		$2,821 43	
Fines from House of Correction		335 00	
			3,156 43

DOG LICENSES FROM COUNTY

From county for libraries		$3,039 12	
			3,039 12

STREET SPRINKLING ASSESSMENTS

For street sprinkling, 1915		$30,266 02	
Street sprinkling, 1914		3,936 57	
Street sprinkling, 1913		785 18	
Street sprinkling, 1912		4 12	
			34,991 89

MOTH EXTERMINATION ASSESSMENTS

For moth assessments, 1915		$1,526 28	
Moth assessments, 1914		352 69	
Moth assessments, 1913		38 41	
Moth assessments, 1912		28	
			1,917 66

ELECTION EXPENSES, CITY CLERK'S DEPARTMENT

For sale of waste paper		$6 30	
			6 30

CITY CLERK'S DEPARTMENT

For recording cemetery deeds		$8 75	
Certificates from records		234 75	
Dog licenses		330 00	
Druggist liquor licenses		2 00	
Married women's certificates		7 00	
Mortgages, assignments, etc.		722 70	
Witness fees		8 60	
Business certificates		25 25	
Junk collectors' badges		44 00	
Revised ordinances		10 50	
Found goods		50	
Telephone fees		2 65	
			1,396 70
Amount carried forward			$3,284,708 12

City Income—Continued

Amount brought forward		$3,284,708 12
LAW DEPARTMENT		
Legal advice and services of City Solicitor to Water Department	$1,000 00	
Credit for over-charge	75	
Sale of cabinet	10 00	
Cost of collection in suit O. of P. vs Mrs. Scott	3 30	
		1,014 05
TREASURY DEPARTMENT		
For Sale:		
Preparation	$180 00	
Advertising	271 90	
Deeds	298 00	
Descriptions	17 00	
Posting	159 40	
Releases	73 00	
Certificates of liens	242 00	
Affidavits	19 25	
Composition work	22 00	
Taxes—Summonses	2,101 93	
Services of department in collection of water rates, etc., Water Department	2,000 00	
		5,384 48
MUNICIPAL BUILDINGS		
For heating station houses, Police Department	$890 00	
Heating fire station houses	375 00	
Heating Central Station, Fire Alarm Department	100 00	
Sale of horse and carriage	75 00	
For rent of land on Portland street	229 24	
		1,669 24
BUILDING PERMITS		
For building permits, etc.	$4,276 75	
		4,276 75
POSTAGE AND STATIONERY		
For stationery furnished to:		
Assessors' Department	$54 93	
Auditing Department	71 42	
Boston and Cambridge Bridges	6 00	
Cemetery Department	57 50	
City Clerk's Department	191 94	
City Council expenses	110 74	
City Messenger's Department	57 39	
Clerk of Committees' Department	76 17	
Election Expenses, City Clerk	114 60	
Election Expenses, Registrars of Voters	32 75	
Engineering Department	23 52	
Amounts carried forward	$796 96	$3,297,052 64

City Income—Continued

Amounts carried forward	$796 96	$3,297,052 64
Executive Department	137 77	
Fire Department	18 12	
Health Department, General Expenses	81 72	
Diphtheria Hospital	2 04	
Tuberculosis Hospital	6 78	
Inspection of Milk and Vinegar	15 40	
Law Department	53 35	
Inspection of Buildings	22 98	
City Home	56 00	
Outside Aid	25 78	
Park Maintenance, General	41 65	
Police Department	17 50	
Central Library	106 00	
East Cambridge Library	21 00	
North Cambridge Library	21 00	
Electrical Department	33 13	
Sewer Department, Maintenance	16 25	
State Aid	34 38	
Street Department, Maintenance	113 01	
Water Department, Maintenance	118 86	
Sealer of Weights and Measures	8 00	
Treasury Department	24 54	
Modified Milk	3 61	
Free Employment Bureau	47 55	
Street Lighting Department	1 79	
Water Department, Pumping	1 50	
Tax Assessment Committee	11 96	
Municipal Hospital	1 00	
		1,839 63

FIRE DEPARTMENT

For sale of two auto trucks and old iron	$163 12	
		163 12

POLICE DEPARTMENT

For sale of junk	$1 00	
Minors' licenses, newspapers	48 30	
		49 30

ELECTRICAL DEPARTMENT

For work on wires, H. S. Angus & Son	$31 02	
		31 02

SEALER OF WEIGHTS AND MEASURES

For fees for sealing	$705 62	
Weighing fees at public scales	17 08	
		722 70

MOTH EXTERMINATION BILLS

For cleaning trees:		
Sundry departments	$83 65	
Individuals	71 65	
		155 30
Amount carried forward		$3,300,013 71

City Income—Continued

Amount brought forward			$3,300,013 71
HEALTH DEPARTMENT			
For board at Tuberculosis Hospital:			
Sundry persons	$651 14		
Other cities and towns	3,815 37		
Commonwealth of Massachusetts	2,746 21		
Trustees of Hospital for individuals	13,160 23		
		20,372 95	
Board at Diphtheria Hospital:			
Sundry persons	$144 22		
Other cities and towns	1,003 35		
Commonwealth of Massachusetts	610 63		
		1,758 20	
Board at other institutions:			
Sundry persons	$556 98		
Other cities and towns	1,356 78		
Commonwealth of Massachusetts	1,175 01		
		3,088 77	
			25,219 92
INSPECTION OF ANIMALS			
Reimbursement, Commonwealth of Massachusetts on account of Foot and Mouth Disease		$50 00	
			50 00
MODIFIED MILK			
For sale of modified milk		$708 48	
			708 48
MUNICIPAL HOSPITAL			
For rent of buildings		$280 00	
			280 00
SEWERS MAINTENANCE			
For sale of material, etc		$74 73	
Use of pump, roller, etc		98 95	
			173 68
HOUSE OFFAL			
For sale of offal		$17,382 81	
			17,382 81
INCINERATORS			
For rent of incinerator		$900 00	
			900 00
Amount carried forward			$3,344,728 60

City Income—Continued

Amount brought forward		$3,344,728 60
STREET MAINTENANCE		
For annual charge for railroad track	$400 00	
Horseshoeing	35 75	
Damage to watering cart	12 00	
Damage to automobile	35 57	
Material	1,302 83	
Use of steam roller	32 50	
Use of cement mixer	32 50	
		1,851 15
STREET SPRINKLING		
For watering private ways	$58 84	
		58 84
SIDEWALK REPAIRS		
For constructing driveways, etc	$1,113 54	
		1,113 54
CITY HOME		
For board:		
Soldiers' Relief Department	$133 46	
Reimbursements by individuals	237 73	
By other cities and towns	1 71	
Sale of material:		
Barrels	23 65	
		396 55
CITY HOME HOSPITAL		
For board:		
From other cities and towns	$196 42	
From individuals	85 00	
		281 42
CITY FARM		
For sale of produce, etc	$2,079 80	
		2,079 80
OUTSIDE AID		
For reimbursements:		
From individuals	$596 42	
From other cities and towns	6,529 15	
From the State	9,448 81	
Cash from the State for Mothers' Aid	9,017 89	
		25,592 27
SOLDIERS' BENEFITS		
From State Aid:		
From the State	$11,722 00	
Money refunded	94 00	
	11,816 00	
Amounts carried forward	$11,816 00	$3,376,102 17

City Income—Continued

Amounts brought forward		$11,816 00	$3,376,102 17
Military Aid:			
From the State	$221 00		
Money refunded	57 00		
		278 00	
Soldiers' Relief:			
Money refunded	81 00		
		81 00	
Soldiers' burials:			
From the State	444 00		
		444 00	
			12,619 00

SCHOOLS, TUITION, SALES, ETC.

For tuition of minor wards, Commonwealth of Massachusetts		$1,049 50	
Tuition of minor wards, City of Boston		86 50	
From state for vocational schools		5,170 16	
Tuition of non-resident pupils:			
Rindge Technical School	$540 00		
At High and Latin Schools	328 00		
At Rindge Evening Industrial School	60 00		
Tuition at High and Latin Schools, Hopkins Fund	40 00		
		968 00	
Sale of automobile		990 00	
Sale of books and materials		408 71	
Sale of food, Thorndike School		7 39	
Sale of old iron		171 54	
Sale at Trade School		1,962 43	
Salary returned		20 00	
Telephone fees		1 25	
Use of halls for rallies, etc		72 00	
Overpayment on bill		18 78	
Forfeiture of deposits		166 00	
Sale of minors' licenses		148 00	
			11,240 26

LIBRARY FINES, ETC.

For library fiines, etc		$1,178 77	
Return on premium		8 75	
			1,187 52

PARK DEPARTMENT RENTS, PRIVILEGES

For rent of Weld boat house		$500 00	
Rent of land to Ford Motor Co		30 00	
Rent of land to Cambridge Electric Light Co		2 00	
Privilege of cutting grass		10 00	
			542 00
Amount carried forward			$3,401,690 95

City Income—Continued

Amount brought forward		$3,401,690 95
PARK DEPARTMENT BATHS		
For use bathing suits, towels, etc., at Captain's Island	$576 54	576 54
CAMBRIDGE FIELD SHELTER		
For use of towels at shelter	$195 28	195 28
RINDGE FIELD SHELTER		
For use of towels at shelter	$119 42	119 42
RUSSELL FIELD		
Use of towels at shelter	$5 94	
Use of field	565 00	
Rent of land outside enclosure	60 00	630 94
THORNDIKE SCHOOL SHOWER BATHS		
For use of towels, etc	$127 36	127 36
FOURTH OF JULY CELEBRATION		
For advertisements in programs	$300 00	300 00
CEMETERY DEPARTMENT		
For sale of lots and graves	$10,502 18	
Burials, care, etc	12,943 12	
Perpetual care and deeds in trust	3,434 51	26,879 81
STADIUM BRIDGE		
For money received from Mrs. Larz Anderson on account of approach to Anderson Bridge	$4,204 76	4,204 76
INTEREST		
For interest on bank deposits	$7,044 35	
Interest on overdue taxes	24,557 35	
Interest on sidewalk assessments	105 82	
Interest on sewer assessments	8 15	
Accrued interest on bonds	2,394 11	34,109 78
Amount brought forward		$3,468,834 84

City Income—Continued

Amount brought forward			$3,468,834 84
WATER WORKS, RATES, ETC.			
For rates, etc		$399,405 31	
Miscellaneous bills:			
Maintenance	$5,253 77		
Maintenance of buildings	340 25		
Off and on	144 00		
Rent	630 90		
Seals	29 75		
Supply	10,405 02		
		16,803 69	
			416,209 00
RENT OF LAND, HARVARD COLLEGE			
Rent of leased land		$2,400 00	
			2,400 00
SPECIAL RECEIPTS			
SEWER CONSTRUCTION GENERAL			
For sewer assessments		$6,346 17	
			6,346 17
STREET DEPARTMENT, CONCORD AVENUE			
From Commonwealth of Massachusetts, for work done by Street Department on Concord Avenue, State Highway		$35,269 74	
			35,269 74
STREET DEPARTMENT, MASSACHUSETTS AVENUE			
For sale of wood blocks to Boston Elevated Railway Co.		$645 00	
			645 00
EDGESTONES AND SIDEWALKS			
For edgestone and sidewalk assessments		$4,616 81	
			4,616 81
WATER DEPARTMENT CONSTRUCTION GENERAL			
For labor and materials		$2,536 89	
			2,536 89
WATER DEPARTMENT "DETECTOR METERS"			
For labor and materials		$3,833 40	
			3,833 40
PREMIUM ACCOUNT			
For premium on Municipal bonds		$4,756 73	
			4,756 73
Amount carried forward			$3,945,448 58

City Income—Concluded

Amount brought forward		$3,945,448 53

RECEIPTS FROM LOANS

From Building loan	$80,000 00	
Bridge loan	60,000 00	
Park loan	30,000 00	
Playgrounds loan	25,000 00	
Sewer Construction loan	15,000 00	
Sewer Separate System	15,000 00	
Street loan	164,500 00	
Temporary loans	1,650,000 00	
	2,039,500 00	
Commission of Sinking Fund, City	120,000 00	
Commission of Sinking Fund, Water	400,000 00	
Tax Lien account	3,524 13	
		2,563,024 13
Total		$6,508,472 71
To cash in treasury, April 1, 1915		61,889 66
		$6,570,362 37

PAYMENTS.

GENERAL GOVERNMENT

CITY COUNCIL SALARIES

Transfer from Reserve Fund		$1,875 00
EXPENDED		
For salaries of Councillors	$1,874 70	
		1,874 70
Surplus of appropriation transferred to Reserve Fund		$ 30

CITY COUNCIL EXPENSES

Appropriation			$6,740 00
EXPENDED			
For salaries of:			
Clerk of Council	$375 03		
Page	100 00		
		$475 03	
Advertising hearings, ordinances, etc.		141 81	
Books, legal documents, etc.		4 50	
Budgets, calendars, financial reports and manuals		600 79	
Car tickets		600 00	
City documents, printing, 1914-15, partial payment	$1,774 51		
Binding documents	71 29		
		1,845 80	
Funeral expenses:			
Automobile and carriage hire.	$43 61		
Floral tributes	41 66		
		85 27	
Gavels, engraving and mounting		5 88	
Inauguration expenses:			
Carriage and automobile hire	$47 68		
Floral decorations	83 30		
Printing	121 28		
Use of chairs	16 17		
		268 43	
Leather cases for City Government Manuals		79 20	
Locks, keys and miscellaneous expenses		17 30	
Posting and serving notices		73 00	
Posting notices of civil service examinations		39 00	
Printing and binding		290 56	
Recording fees		121 17	
Spring water		15 68	
Amounts carried forward		$4,663 42	$6,740 00

General Government—Continued

Amounts brought forward		$4,663 42	$6,740 00
Stationery and record books		98 34	
Subscriptions		18 00	
Expenses of committee for:			
Carriage and automobile hire.	$1,544 90		
Dinners and refreshments....	608 59		
		2,153 49	
			6,933 25
Excess of expenditure over appropriation			$193 25
Transfer from Reserve Fund			193 25

CLERK OF COMMITTEES' DEPARTMENT

Salaries

Appropriation		$4,634 00
EXPENDED		
For salaries of:		
Clerk of Committees	$2,400 00	
Assitant Clerk of Committees	900 00	
Pension of former Assistant Clerk	450 00	
Stenographer	884 00	
Total		4,634 00

General Expenses

Appropriation		$300 00
EXPENDED		
For Atlas	$30 00	
Binding	2 50	
Directories	15 00	
Stationery, printing and office supplies	129 12	
Subscriptions	7 00	
Telephone service	96 51	
Total		280 13
Surplus of appropriation transferred to Reserve Fund		19 87

EXECUTIVE DEPARTMENT

Salaries

Appropriation	$6,184 00
Amount carried forward	$6,184 00

General Government—Continued

EXPENDED

Amount brought forward		$6,184 00
For salaries of:		
Mayor, Timothy W. Good, part year	$2,625 03	
Clerk	1,800 00	
Stenographer	874 27	
Total		5,299 30
Surplus of appropriation transferred to Reserve Fund		$884 70

General Expenses

Appropriation		$1,000 00

EXPENDED

For advertising	$2 94	
Binding	9 80	
Carriage and automobile hire	357 90	
Decorating City Hall for convention	9 80	
Directory	4 50	
Expenses to convention	35 00	
Expressage	3 30	
Services of stenographer	10 00	
Subscriptions	3 77	
Stationery, printing and office supplies	354 41	
Telephone service	224 20	
Typewriter supplies	12 25	
Total		1,027 87
Excess of expenditure over appropriation		$27 87
Transfer from Reserve Fund		27 87

LICENSE SUPERVISION

Appropriation		$925 00

EXPENDED

For services of inspector	$712 50	
Stationery, printing and supplies	21 49	
Total		733 99
Surplus of appropriation transferred to Reserve Fund		**$191 01**

WORKINGMEN'S COMPENSATION

Appropriation		$900 00

EXPENDED

For services of Clerk	$665 00	
Amounts carried forward	$665 00	$900 00

General Government—Continued

Amounts brought forward	$665 00	$900 00
Desk	26 00	
Printing	2 45	
Total		693 45
Surplus of appropriation transferred to Reserve Fund		$206 55

AUDITING DEPARTMENT

Salaries

Appropriation		$6,209 00
EXPENDED		
For salaries of:		
Auditor	$2,500 00	
Clerks	3,484 50	
Clerks, temporary	178 00	
Total		6,162 50
Surplus of appropriation transferred to Reserve Fund		$46 50

General Expenses

Appropriation		$425 00
EXPENDED		
For adding machine repairs	$14 75	
Automobile hire	18 29	
Car tickets	5 00	
Desks and chairs	66 00	
Expressage	26	
Stationery, printing and office supplies	192 01	
Telephone service	108 64	
Total		404 95
Surplus of appropriation transferred to Reserve Fund		$20 05

TREASURER'S AND COLLECTOR'S DEPARTMENT

Salaries

Appropriation		$13,000 00
EXPENDED		
For salaries of:		
Treasurer	$3,000 00	
Cashier	1,929 44	
Amounts carried forward	$4,929 44	$13,000 00

General Government—Continued

Amounts brought forward	$4,929 44	$13,000 00
Paymaster and assistant	2,857 80	
Bookkeeper	1,056 65	
Clerks, permanent	3,401 97	
Clerks, temporary	1,094 75	
Total		13,340 61
Excess of expenditure over appropriation		$340 61
Transfer from Reserve Fund		340 61

General Expenses

Appropriation		$4,000 00
EXPENDED		
For adding machine supplies	$1 46	
Advertising tax sale	395 45	
Automobile hire	656 52	
Binding	2 01	
Car tickets	5 00	
Certifying and preparing bonds	1,875 00	
Directories	11 00	
Expressage	1 86	
Premium on bonds	80 00	
Services of clerk	141 67	
Stationery, printing and office supplies	2,467 39	
Spring water	31 90	
Subscriptions	15 94	
Telephone service	219 01	
Typewriting supplies and repairs	7 35	
Water bills, special collection	500 00	
Total		6,411 56
Excess of expenditure over appropriation		$2,411 56
Transfer from Water Department revenue	$500 00	
Transfer from Premium Account, revenue	1,875 00	
Transfer from Reserve Fund	36 56	
		2,411 56

ASSESSORS' DEPARTMENT

Salaries

Appropriation		$16,900 00
EXPENDED		
For salaries of:		
Principal assessors	$7,500 00	
Assistant assessors	3,850 00	
Amounts carried forward	$11,350 00	$16,900 00

General Government—Continued

Amounts brought forward	$11,350 00	$16,900 00
Clerks, permanent	2,808 00	
Clerks, temporary	2,542 63	
Total		16,700 63
Surplus of appropriation transferred to Reserve Fund		$199 37

General Expenses

Appropriation		$2,500 00
EXPENDED		
For adding machine repairs	$1 77	
Advertising	94 34	
Automobile list	12 74	
Automobile hire	181 00	
Binding	17 79	
Car tickets	100 00	
Directories	15 00	
Expressage	36	
Lunches	4 20	
Posting notices	15 00	
Services of assessor	24 03	
Spring water	12 25	
Stationery, printing and office supplies	561 92	
Subscriptions	5 00	
Telephone service	136 94	
Printing poll tax list	1,417 66	
Total		2,600 00
Excess of expenditure over appropriation		$100 00
Transfer from Reserve Fund		100 00

ASSESSORS' PLANS

Appropriation	$200 00
EXPENDED	
For services of engineers and assistants, as per payroll	200 00

CITY CLERK'S DEPARTMENT

Salaries

Appropriation		$7,439 90
EXPENDED		
For salaries of:		
City Clerk	$3,300 00	
Assistant City Clerk	1,600 00	
Amounts carried forward	$4,900 00	$7,439 90

General Government—Continued

Amounts brought forward	$4,900 00	$7,439 90
Clerks, permanent	2,078 29	
Clerks, temporary	378 50	
Total		7,356 79
Surplus of appropriation transferred to Reserve Fund		$83 11

General Expenses

Appropriation		$2,100 00
EXPENDED		
For Atlas	$30 00	
Badges	49 00	
Binding	47 53	
Birth returns, sundry physicians	502 25	
Canvassing for births	601 50	
Directory	4 50	
Electrical supplies	1 67	
Expressage	1 78	
Office furniture	78 57	
Premium on bonds	12 00	
Stationery, printing and office supplies	628 50	
Subscriptions	2 50	
Telephone service	81 01	
Typewriting repairs and supplies	14 80	
Verifying and obtaining facts for record	38 94	
Total		2,094 55
Surplus of appropriation transferred to Reserve Fund		$5 45

CLASSIFIED INDEX

Appropriation		$500 00
EXPENDED		
For sundry persons, as per payroll	$498 73	
Total		498 73
Surplus of appropriation transferred to Reserve Fund		$1.27

CITY MESSENGER'S DEPARTMENT

Appropriation		$2,488 00
EXPENDED		
For salaries of:		
City Messenger	$1,800 00	
Assistant	688 00	
Total		2,488 00

General Government—Continued

General Expenses

Appropriation		$300 00
EXPENDED		
For car tickets	$35 00	
Directories	9 00	
Expressage	15	
Rent of post office box	8 00	
Stationery, printing and office supplies	62 78	
Subscriptions	15 86	
Telephone service	154 16	
Work in vault	20 00	
Total		304 95
Excess of expenditure over appropriation		$4 95
Transfer from Reserve Fund		4 95

POSTAGE AND STATIONERY

Appropriation		$2,000 00
EXPENDED		
For postage and stamped envelopes	$1,475 00	
Stationery and office supplies	512 55	
Total		1,987 55
Surplus of appropriation transferred to Reserve Fund		$12 45

LAW DEPARTMENT

Salaries

Appropriation		$4,280 00
EXPENDED		
For salaries of:		
City Solicitor	$3,500 00	
Stenographer	297 00	
Total		3,797 00
Surplus of appropriation transferred to Reserve Fund		$483 00

General Expenses

Appropriation		$900 00
EXPENDED		
For auto hire	$30 00	
Copies Court orders	9 25	
Directory	6 50	
Investigation of cases	30 00	
Amounts carried forward	$75 75	$900 00

General Government—Continued

LAW DEPARTMENT—Concluded

Amounts brought forward	$75 75	$900 00
Legal documents, books, etc.	16 00	
Lunches	16 80	
Office rent	249 96	
Photographic supplies	10 46	
Services of attorney, Rockwood vs Cunningham	61 13	
Services of clerk, Workingmen's Compensation	16 00	
Services of real estate expert	475 00	
Services of stenographer	472 22	
Serving notices	7 85	
Stationery, printing and office supplies	152 28	
Subscriptions	40 00	
Telephone service	50 00	
Witness fees	11 00	
Total		1,654 45
Excess of expenditure over appropriation		$754 45
Transfer from Reserve Fund		754 45

ELECTION AND REGISTRATION

ELECTION EXPENSES (CITY CLERK)

Appropriation		$11,517 00

EXPENDED

For services of:			
Election officers and deputies	$3,810 50		
Precinct men	345 00		
Primary officers, State and city primaries	1,331 50		
		$5,497 00	
Special clerks tabulating returns		108 15	
Clerical assistance in office		804 38	
Labor filing returns		317 78	
Janitor at Cambridge Field Shelter		12 00	
Advertising		829 05	
Ballots and tally sheets		567 85	
Ballot boxes and repairs		200 75	
Binding		8 87	
Carpentry		2 93	
Carriage and automobile hire		358 54	
Electrical supplies and repairs		7 41	
Expressage and teaming		144 92	
Lighting at Cambridge Field		7 26	
Lunches for police and carriage men		77 40	
Posting and distributing notices		115 25	
Printing		326 27	
Rent of hall		70 00	
Serving notices		39 00	
Signs		52 45	
Amounts carried forward		$9,547 26	$11,517 00

General Government—Continued

ELECTION EXPENSES—Concluded

Amounts brought forward	$9,547 26	$11,517 00
Stationery, printing and office supplies	368 20	
Subscriptions	2 50	
Sundry supplies and repairs	9 83	
Telephone service	35 77	
Total		9,963 64
Excess of appropriation transferred to Reserve Fund		$1,553 36

REGISTRARS OF VOTERS

Appropriation		$5,200 00
EXPENDED		
For salaries of registrars and clerk of board	$3,039 00	
Clerical assistance	121 63	
Assistants at recount	294 05	
Janitors at Cambridge Field and Brattle Sq. Building	13 50	
Advertising	124 95	
Binding and mounting lists	36 26	
Carriage and automobile hire	80 00	
Directory	4 50	
Expressage	24 00	
Lighting at Cambridge Field	1 20	
Preparing list boards and posting	131 13	
Printing voting lists	1,214 09	
Stationery and office supplies	149 18	
Telephone service	58 60	
Towel supply	5 39	
Total		5,297 48
Excess of expenditure over appropriation		$97 48
Transfer from Reserve Fund		97 48

POLLING PLACES

Appropriation		$3,100 00
Transfer to Haggerty School		83 27
		$3,016 73
EXPENDED		
For janitor service	$587 70	
Automobile hire	18 00	
Fuel, heating apparatus, etc.	160 14	
Rent of halls and use of lands for booths	645 00	
Repairs to booths	9 00	
Setting up booths and removing same	902 33	
Teaming	274 40	
Use of chairs and tables	29 85	
Total		2,626 42
Surplus of appropriation transferred to Reserve Fund		$390 31

General Government—Continued

ENGINEERING DEPARTMENT

Salaries

Appropriation		$8,500 00
EXPENDED		
For salaries of:		
Engineer	$3,000 00	
Assistant engineers, transitmen and rodmen	5,395 35	
Clerk	432 00	
Total		8,827 35
Excess of expenditure over appropriation		$327 35
Transfer from Reserve Fund		327 35

General Expenses

Appropriation		$550 00
EXPENDED		
For binding	$7 84	
Apparatus, instruments and repairs	32 48	
Car tickets	175 00	
Directory	6 00	
Drawing materials	60 49	
Engineering periodicals	8 00	
Expressage	55	
Stationery, printing and office supplies	117 66	
Telephone service	104 54	
Total		512 56
Surplus of appropriation transferred to Reserve Fund		$37 44

SUMMARY—EXPENDED

For Highways		$1,339 69	
Assessors' plans		507 40	
Law Department		87 20	
Parks		203 85	
Bridges		9 20	
Cemetery		59 05	
Sidewalks		160 00	
Sewers		1,232 46	
Water		913 49	
General Engineering:			
Accounts	$432 00		
General surveys and levels	111 28		
Location plans	10 95		
Unclassified	760 78		
City Engineer	3,000 00		
		4,315 01	
			$8,827 35

General Government—Continued

SUPERINTENDENT AND INSPECTOR OF BUILDINGS

Salaries

Appropriation		$9,572 52
EXPENDED		
For salaries of:		
Superintendent and Inspector of Buildings	$2,000 00	
Assistant inspectors	3,700 00	
Inspector of gas	1,148 63	
Inspection of plumbing	1,300 00	
Inspector pensioned	600 00	
Clerk	1,250 00	
Total		9,998 63
Excess of expenditure over appropriation		$426 11
Transfer from Reserve Fund		426 11

General Expenses

Appropriation		$1,000 00
EXPENDED		
For advertising	$5 14	
Automobile hire	35 40	
Automobile repairs and supplies	30 50	
Car tickets	200 00	
Carriage repairs	43 89	
Horse board	297 00	
Horseshoeing and clipping	56 84	
Miscellaneous supplies	1 47	
Services of expert	10 00	
Serving notices	13 20	
Stationery, printing and office supplies	162 84	
Telephone service	39 62	
Tower clocks, care and repair of	104 00	
Total		999 90
Surplus of appropriation transferred to Reserve Fund		$ 10

CIVIL SERVICE REGISTRATION

Appropriation		$325 00
EXPENDED		
For services of clerk	$300 00	
Stationery	13 86	
Total		313 86
Surplus of appropriation transferred to Reserve Fund		$11 14

General Government—Continued

MUNICIPAL BUILDINGS SALARIES

Appropriation			$12,618 00
EXPENDED			
For salaries of employees:			
At City Hall:			
Janitor, part of year	$989 00		
Assistant Janitor	871 75		
Engineer	1,294 42		
Firemen	2,683 05		
Elevator-man	845 33		
Cleaners	1,430 86		
		$8,114 41	
At Brattle Square Building:			
Janitor	$487 67		
Firemen	951 00		
Cleaner	475 50		
		1,914 17	
At Central Square Building:			
Janitor	$1,056 67		
Firemen	84 00		
Cleaner	341 83		
		1,482 50	
At Station No. 3 Building:			
Janitor		845 33	
At Station No. 4 Building:			
Janitor		767 67	
Total			$13,124 08
Excess of expenditure over appropriation			$506 08
Transfer from Reserve Fund			506 08

MUNICIPAL BUILDINGS

General Expenses

Appropriation			$9,500 00
EXPENDED			
For atlas		$31 50	
Auto registration		10 00	
Automobile (Ford)		456 60	
Extra cleaning		67 50	
Fire extinguishers		10 82	
Flag pole repairs		7 84	
Fuel		3,610 80	
Furniture and janitors' supplies:			
Brooms, brushes, dusters, mops, etc.	$141 76		
Chairs, shades, awnings	505 14		
Expressage	2 39		
Amounts carried forward	$649 29	$4,195 06	$9,500 00

General Government—Continued

MUNICIPAL BUILDINGS, GENERAL EXPENSES—Concluded

Amounts brought forward	$649 29	$4,195 06	$9,500 00
Ice	194 06		
Laundry	122 76		
Lighting	1,764 66		
Lighting supplies	19 24		
Oil, waste, polish, etc.	27 57		
Sawdust	49		
Soap, powder, matches, etc.	86 84		
Towels	11 76		
		2,876 67	
Spring water		2 00	
Typewriter, new		92 25	
Repairs and alterations:			
City Hall	$975 60		
Brattle Square Building	429 87		
Central Square Building	184 16		
Station No. 3	43 73		
Station No. 4	123 57		
Inman Square Fire Station	262 95		
		2,019 88	
Total			9,185 86
Surplus of appropriation transferred to Reserve Fund			$314 14

ADMINISTRATION OF SINKING FUNDS

Appropriation			$375 00
EXPENDED			
For salary of treasurer of sinking funds		$300 00	
Services of secretary		25 00	
Car tickets		5 00	
Total			330 00
Surplus of appropriation transferred to Reserve Fund			$45 00

TAX ASSESSMENT COMMITTEE

Appropriation			$3,000 00
EXPENDED			
For services of engineer		$1,440 00	
Services of computers,		825 00	
Services of stenographers		132 24	
Services at exhibition		24 00	
Advertising		15 60	
Car tickets		20 00	
Amounts carried forward		$2,456 84	$3,000 00

General Government—Concluded

TAX ASSESSMENT COMMITTEE—Concluded

Amounts brought forward	$2,456 84	$3,000 00
Desks	15 00	
Electrical supplies	2 90	
Expenses to New York and Baltimore of engineer	79 30	
Office supplies	201 22	
Prints	178 88	
Poles	18 75	
Sundry expenses, car fares, etc.	45 20	
Total		2,998 09
Surplus of appropriation transferred to Reserve Fund		$1 91

PROTECTION OF LIFE AND PROPERTY

COMMISSIONER OF PUBLIC SAFETY

Appropriation, Acts 1913 ..... **$391,657 66**

EXPENDED

For salaries of:			
Commissioner	$2,750 00		
Clerk	1,375 00		
Assistant clerk	366 45		
Chauffeur	43 25		
Inspector gasoline	641 80		
Mechanic	787 20		
Stenographer	129 47		
		$6,093 17	
Automobile registration		15 00	
Automobile hire		178 44	
Automobile supplies and repairs		822 82	
Badges		19 11	
Car tickets		25 00	
Detecto outfit		80 00	
Directory		5 00	
Expenses of investigation		17 65	
Newspapers and periodicals		5 00	
Refreshments		25 65	
Services of attorney		50 00	
Spring water		20 58	
Stationery and printing and office supplies		51 97	
Telephone service		173 64	
Municipal repair shop, supplies		2,179 94	
Power service, for repair shop		11 07	
			$9,774 04
Amount carried forward			$9,774 04

Protection of Life and Property—Continued

COMMISSIONER OF PUBLIC SAFETY, POLICE DIVISION, SALARIES—Concluded

Amount brought forward		$9,774 04

POLICE DIVISION

Salaries

EXPENDED

For salaries of:		
Captains	$10,375 00	
Inspectors	2,800 00	
Lieutenants	11,711 86	
Sergeants	7,046 21	
Patrolmen	140,739 80	
Reserve officers	9,038 50	
Drivers	6,871 50	
Matrons	941 12	
	$189,523 99	
Pensions	8,599 24	
Sick leave	2,851 29	
Allowance by Commissioner of Public Safety	401 60	
		$201,376 12

POLICE DIVISION

General Expenses

EXPENDED

For general administration:		
Automobile hire	$92 18	
Binding	5 88	
Car tickets	375 00	
Directories	37 00	
Electrical supplies and repairs....	16 69	
Licenses for chauffeur	4 00	
Periodicals	5 00	
Photographic supplies	17 44	
Stationery, printing and office supplies	600 40	
Telegrams	12 17	
Telephone service	359 47	
Traveling expenses of officers	12 33	
		$1,537 56
Expenses of station houses:		
For cleaning trees	$ 31	
Disinfectant and insecticide	42 43	
Expressage	1 60	
Food for prisoners	45 33	
Furniture and furnishings	54 63	
Heating, municipal buildings	890 00	
Ice	110 28	
Amounts carried forward	$1,144 58	$212,687 72

Protection of Life and Property—Continued

COMMISSIONER OF PUBLIC SAFETY, POLICE DIVISION, GENERAL EXPENSES —Concluded

Amounts brought forward	$1,144 58	$212,687 72
Janitors' supplies	63 55	
Laundry work and towel supply	86 77	
Lighting	757 31	
Medicines and surgical supplies	221 66	
Oil, matches, etc	15 36	
		2,289 23
Equipment and repairs:		
Garage for ambulance	$119 28	
Harness repairs and horse clothing	19 55	
Lanterns	1 47	
Motor cycles and repairs	156 60	
Wagon and ambulance repairs and supplies	1,872 18	
		2,169 08
Officers equipment:		
Badges	$53 85	
Belts	11 84	
Cloth and cutting	12 40	
Clubs	14 70	
Firearms	4 18	
Numbers, buttons and trimmings	95 79	
		192 76
Horses and care of same:		
Horses (new)	$350 00	
Hay, grain and straw	400 17	
Horseshoeing and clipping	242 33	
Use of horse	122 00	
		1,114 50
Miscellaneous expenses:		
Allowance by commissioner for injuries	$224 53	
Services of attorney in Russell case	100 00	
Witness fees at police hearing	2 20	
		326 73
Total		$7,629 86

FIRE DIVISION

Salaries

EXPENDED

For salaries of:		
Chief engineer	$2,500 00	
Assistant chief engineer	2,000 00	
Captains	18,195 68	
Lieutenants	16,171 17	
Enginemen	10,159 02	
Amounts carried forward	$49,025 87	$218,780 02

Protection of Life and Property—Continued

COMMISSIONER OF PUBLIC SAFETY, FIRE DIVISION—Concluded

Amounts brought forward	$49,025 87	$218,780 02
Privates	80,519 23	
Callmen	6,058 30	
Pensions	12,033 89	
		147,637 29

General Expenses

EXPENDED

For general administration:		
Automobile registration	$26 00	
Automobile supplies and repairs	2,684 56	
Oil and gasoline for automobiles	324 10	
Expressage	31	
Lunch	7 50	
Services of inspector	1 90	
Stationery, printing and office supplies	201 90	
Subscriptions	6 25	
Telephone	93 28	
		3,345 90
Expenses of fire stations:		
Disinfectant and insecticide	$49 20	
Furniture and furnishings	262 71	
Ice	64 50	
Inspection of boilers	21 00	
Janitors' supplies	126 73	
Laundry	410 56	
Oil	51 30	
Polish	141 12	
Soap, powder, etc.	79 23	
Sponges and chamois	106 57	
		1,312 92
Equipment and repairs:		
For chemical supplies	$142 89	
Engines, wagons and repairs	673 70	
Harness and horse clothing	81 49	
Hose and fittings	1,799 31	
Hats	16 06	
Ladders	34 99	
Lanterns	25 49	
Tools and miscellaneous supplies	183 52	
		2,957 45
Fuel and light:		
Coal and wood	$2,939 69	
Heating building, municipal building	375 00	
Lighting	811 64	
Shavings	52 00	
		4,178 33
Amount carried forward		$378,211 91

Protection of Life and Property—Continued

COMMISSIONER OF PUBLIC SAFETY, FIRE DIVISION, GENERAL EXPENSES —Concluded

Amount brought forward			$378,211 91
Horses and care of same:			
Hay, grain and straw		$8,385 05	
Horses, new		1,043 34	
Horse hire		133 00	
Horseshoeing and clipping		2,702 43	
Medicine, bandage, etc.		125 64	
			12,389 46
Repairs to buildings and grounds:			
For carpentry	$184 10		
Cleaning trees	2 79		
Electrical supplies and repairs	43 20		
Glazing, painting, etc.	10 02		
Heating apparatus and supplies	90 44		
Lumber	136 60		
Mason work	81 30		
Roof repairs	448 31		
Supplies for repairs	61 06		
		1,057 82	
			1,057 82
Total expenditure Public Safety Department			$391,659 19

SUMMARY

Appropriation, Public Safety Department (page 66)	$391,657 66
Expenditures, Public Safety Department	391,659 19
Excess of expenditure over appropriation	$1 53
Transfer from Reserve Fund	1 53

FIRE AND POLICE TELEGRAPH AND INSPECTION OF WIRES

Salaries

Appropriation	$15,000 00

EXPENDED

For salaries of:		
Inspector of Wires (part salary)	$750 00	
Assistant inspectors	2,392 00	
Operators	3,159 52	
Instrument man	1,474 47	
Linemen	5,454 62	
Groundman	978 80	
Painter	146 25	
Wire and repair man	334 50	
Clerk	25 83	
Total		14,715 99
Surplus of appropriation transferred to Reserve Fund		$284 01

Protection of Life and Property—Continued

FIRE ALARM AND POLICE, TELEGRAPH AND INSPECTION OF WIRES—Concluded

General Expenses

Appropriation		$3,500 00
EXPENDED		
For automobile registration, etc.	$13 00	
Automobile supplies and repairs	614 55	
Carriage hire and carriage repairs	88 49	
Battery and battery supplies	141 26	
Car tickets	300 00	
Cleaning office	2 50	
Electrical supplies	504 25	
Expenses to convention	167 00	
Expressage and freight	21 78	
Fire alarm boxes and repairs to apparatus	277 54	
Harness and horse clothing	7 20	
Horse board	336 00	
Horseshoeing	56 84	
Ice	8 55	
Laundry	28 86	
Lighting	6 70	
Lumber	49 71	
Repairs to street and building, damage made by fire alarm box	6 00	
Stationery, printing and office supplies	105 95	
Steam for whistle	50 00	
Telephone service	223 38	
Tools and miscellaneous supplies	219 56	
Use of truck	15 00	
Vitriol	81 73	
Whistle, strikers and motor repairs	8 50	
Wire and line material	164 54	
Total		3,498 89
Surplus of appropriation transferred to Reserve Fund		$1 11

FIRE ALARM AND KEYLESS BOXES

Appropriation		$500 00
EXPENDED		
For fire alarm boxes	$500 00	
Total		500 00

Protection of Life and Property—Continued

UNDERGROUND CABLE

Appropriation		$2,500 00
EXPENDED		
For cable	$2,261 05	
Total		2,261 05
Surplus of appropriation transferred to Reserve Fund		$238 95

FIRE ALARM APPARATUS

Re-appropriation 1914-1915		$24,734 00
EXPENDED		
For services of superintendent	$400 00	
Labor	146 26	
Apparatus	15,200 00	
Automobile repairs and supplies	50 56	
Automobile truck	1,198 00	
Electrical supplies	1,626 99	
Expressage, teaming and freight	39 44	
Fire alarm boxes and pedestals	245 59	
Office equipment	700 43	
Painting	177 88	
Total		19,785 15
Balance of appropriation		$4,948 85

MILITIA—USE OF RIFLE RANGE AND TRANSPORTATION

Appropriation			$1,400 00
EXPENDED			
By Troop C, M. V. M.:			
For use of rifle range	$163 25		
Transportation	33 97		
		$197 22	
By Headquarters, Eighth Regiment:			
For transportation		60 70	
By Company A, Eighth Regiment:			
For use of rifle range	$69 00		
Transportation	150 50		
		219 50	
By Company C, Eighth Regiment:			
For use of rifle range	$169 70		
Transportation	148 13		
		317 83	
Amounts carried forward		$795 25	$1,400 00

Protection of Life and Property—Continued

MILITIA—USE OF RIFLE RANGE AND TRANSPORTATION—Concluded

Amounts brought forward		$795 25	$1,400 00
By Company E, Eighth Regiment:			
For use of rifle range	$156 25		
Transportation	165 00		
		321 25	
By Company 6, C. C. A.:			
For use of rifle range	$173 13		
Transportation	100 00		
		273 13	
Total			1,389 63
Surplus of appropriation transferred to Reserve Fund			$10 37

SEALER OF WEIGHTS AND MEASURES

Salaries

Appropriation		$5,000 00
EXPENDED		
For salaries of:		
Sealer of Weights and Measures	$1,300 00	
Deputy	1,000 00	
Assistants	2,217 00	
Total		4,517 00
Surplus of appropriation transferred to Reserve Fund		$483 00

General Expenses

Appropriation		$800 00
EXPENDED		
For advertising	$9 80	
Auto registration	10 00	
Automobile supplies and repairs	26 37	
Car tickets	40 00	
Carriage repairs	231 88	
Equipment and repairs	62 34	
Expenses to convention	34 79	
Harness and wagon repairs	12 45	
Horseshoeing and clipping	27 11	
Stationery, printing and office supplies	80 60	
Telephone service	23 89	
Automobile storage	130 00	
Total		689 23
Surplus of appropriation transferred to Reserve Fund		$110 77

Protection of Life and Property—Concluded

FORESTRY

Appropriation		$16,000 00
EXPENDED		
For labor, as per payroll	$13,222 09	
Compensation	47 14	
Advertising	13 72	
Arsenate of lead and creosote	307 35	
Gasoline	25 48	
Horseshoeing	4 83	
Automobile storage	16 00	
Hose	37 72	
Ladders and repairs	109 51	
Loam and filling	47 70	
Services of expert	25 00	
Services of Physician (Compensation Act)	38 00	
Sharpening saws	24 52	
Spraying machine repairs	89 17	
Stationery, printing, etc	2 00	
Tools and miscellaneous supplies	157 05	
Trees	643 50	
Tree poles	278 24	
Wire netting	123 75	
Teaming, as per payroll	525 00	
Total		15,737 77
Surplus of appropriation transferred to Reserve Fund		$262 23

HEALTH AND SANITATION

BOARD OF HEALTH EXPENSES

Salaries

Appropriation		$18,000 00
EXPENDED		
For salaries of:		
Medical inspector	$2,416 67	
Bacteriologist	1,080 00	
Sanitary inspectors	3,158 34	
Inspector of plumbing	1,100 00	
Inspector of provisions	1,583 29	
Inspector of slaughtering	755 00	
Driver	1,092 00	
Social worker	780 00	
School nurse	1,100 00	
Amounts carried forward	$13,065 30	$18,000 00

Health and Sanitation—Continued

BOARD OF HEALTH EXPENSES—Concluded

Amounts brought forward	$13,065 30	$18,000 00
Assistant school nurse	1,149 04	
School inspectors	2,000 00	
Clerk	1,200 00	
Secretary	962 00	
Total		18,376 34
Excess of expenditure over appropriation		$376 34
Transfer from Reserve Fund		376 34

SCHOOL DENTIST

Appropriation		$1,000 00
EXPENDED		
For salary of school dentist	$225 00	
Salary of an assistant	55 00	
Stationery	4 16	
Total		284 16
Surplus of appropriation transferred to Reserve Fund		$715 84

BOARD OF HEALTH, GENERAL EXPENSES

Appropriation			$20,000 00
EXPENDED			
For ambulance and wagon supplies		$27 44	
Annual report		79 18	
Automobile hire		45 57	
Automobile licenses		4 00	
Automobile supplies and repairs		118 97	
Burning dead animals		41 50	
Car tickets		700 00	
Care of tuberculosis patients:			
By other cities and towns	$168 00		
Private institutions	64 29		
Commonwealth of Massachusetts	2,060 59		
		2,292 88	
Care of contagious diseases:			
By other cities and towns	$1,754 70		
Private institutions	12,531 64		
		14,286 34	
Collecting cultures		148 50	
Costs in suit Commonwealth of Massachusetts vs. City of Cambridge		15 47	
Amounts carried forward		$17,759 85	$20,000 00

Health and Sanitation—Continued

GENERAL EXPENSES AND HOSPITALS—Continued

Amounts brought forward		$17,759 85	$20,000 00
Directories		13 00	
Express and freight		1 15	
Harness repairs and horse clothing		11 02	
Horse board		280 28	
Horseshoeing and clipping		42 14	
Ice		49 60	
Laboratory supplies		345 48	
Serum		89 01	
Sanitary supplies		17 77	
Serving notices		20 60	
Services of stenographer		138 61	
Soap and matches		1 97	
Stable supplies		2 35	
Stationery, printing and office supplies		559 94	
Storage ambulance		114 72	
Subscriptions		3 00	
Telephone service		141 92	
Treatment of rabies, New York City		150 00	
Expenses of Dispensary for Tuberculosis:			
Services of physician	$84 00		
Services of nurse	133 34		
Rent	33 34		
Equipment	115 15		
		365 83	
Total			20,108 24
Excess of expenditure over appropriation			$108 24
Transfer from Reserve Fund			108 24

TUBERCULOSIS HOSPITAL

Appropriation			$27,000 00
EXPENDED			
For physician	$1,200 00		
Extra physician	70 00		
Interne	540 00		
Matron	832 00		
Nurses	2,675 06		
Cooks	898 00		
Dishwasher	324 00		
Laundresses	675 43		
Scrub women	346 50		
Care takers	624 00		
Maid	324 00		
Night watchman	624 00		
		$9,132 99	
For room for nurse outside hospital		104 00	
Advertising		24 00	
Amounts carried forward		$9,260 99	$27,000 00

Health and Sanitation—Continued

TUBERCOLOSIS HOSPITAL—Concluded

Amounts brought forward	$9,260 99	$27,000 00
Cleaning trees	1 86	
Crockery and household supplies	162 16	
Disinfectant and insecticide	30 58	
Employment bureau fee	2 77	
Expressage and teaming	8 26	
Fuel	1,774 67	
Furniture and furnishing	999 37	
Hens and care of same	20 75	
Ice	359 83	
Lighting	982 68	
Medical and surgical supplies	713 31	
Oil	14 99	
Paper bags, napkins, etc	266 62	
Plants, seeds, etc	6 32	
Ploughing, etc.	11 76	
Repairs and supplies for repairs	281 15	
Soap, matches, etc	199 77	
Stationery, printing, etc.	88 45	
Subsistence supplies	11,337 76	
Telephone service	84 54	
Total		26,608 59
Surplus of appropriation transferred to Reserve Fund		$391 41

DIPHTHERIA HOSPITAL

Appropriation		$8,500 00

EXPENDED

For salaries of:			
Physician	$400 00		
Matron	260 00		
Nurses	663 66		
Houseman	270 00		
House-servant	108 00		
Cooks	140 00		
Laundress	120 00		
		$1,961 66	
Automobile ambulance		3,840 00	
Automobile repairs, etc		37 10	
Cutting grass		21 25	
Clothing and dry goods		102 93	
Expressage		24 75	
Fuel		40 23	
Furniture and furnishings		7 15	
Ice		30 59	
Laundry supplies		13 07	
Lighting		41 36	
Medical and surgical supplies		88 48	
Amounts carried forward		$6,208 57	$8,500 00

Health and Sanitation—Continued

DIPHTHERIA HOSPITAL—Concluded

Amounts brought forward	$6,208 57	$8,500 00
Repairs and supplies for repairs	19 59	
Stationery supplies	2 04	
Subsistence supplies	816 53	
Care of patients at Mass. Homeopathic Hospital	1,566 00	
Telephone service	32 91	
Water	4 75	
Total		8,650 39
Excess of expenditure over appropriation		$150 39
Transfer from Reserve Fund		150 39

INSPECTOR OF MILK AND VINEGAR

Appropriation		$2,300 00

EXPENDED

For salary of inspector	$1,200 00	
Collector of samples	969 43	
Substitute during vacation	30 00	
Car tickets	70 00	
Coat and towel supply	16 40	
Distilled water	4 41	
Expressage	60	
Laboratory supplies and apparatus	90 98	
Stationery, printing and office supplies	39 89	
Total		2,421 71
Excess of expenditure over appropriation		$121 71
Transfer from Reserve Fund		121 71

INSPECTION OF ANIMALS

Appropriation		$1,500 00

EXPENDED

For salary of inspector	$1,116 66	
Medicine and bandage	245 60	
Use of automobile	391 63	
Total		1,753 89
Excess of expenditure over appropriation		$253 89
Transfer from Reserve Fund		253 89

Health and Sanitation—Continued

MODIFIED MILK

Appropriation		$1,500 00
EXPENDED		
For services modifying milk	$189 71	
Services of nurses at distributing stations	297 55	
Services, washing and filling bottles	79 60	
Carriage hire	18 62	
Delivering milk	117 14	
Apparatus, repairs and supplies	174 15	
Expressage	1 30	
Milk, sugar of milk, etc	861 77	
Signs	8 82	
Stationery, printing, etc	52 12	
Services distributing mik at Cambridge Field	4 16	
Total		1,804 94
Excess of expenditure over appropriation		$304 94
Transfer from Reserve Fund		304 94

ADDITION TO TUBERCULOSIS HOSPITAL

Re-appropriation from 1914-15		$89,369 50
Transfer to Municipal Hospital		10,000 00
		$79,369 50
EXPENDED		
For advertising	$11 59	
Architect fees	2,570 85	
Landscape architect	528 55	
Building contract	39,512 00	
Electrical work	1,138 50	
Engineering contract	501 16	
Cleaner	250 00	
Heating and ventilating	7,032 50	
Plumbing	2,864 25	
Total		54,409 40
Balance of appropriation		$24,960 10

MUNICIPAL HOSPITAL

Re-appropriation, 1914-15	$849 30
Transfer from Addition to Tuberculosis Hospital	10,000 00
Appropriation	90,000 00
	$100,849 30

Health and Sanitation—Continued

MUNICIPAL HOSPITAL—Concluded

Amount brought forward		$100,849 30
EXPENDED		
For advertising	$67 72	
Architect	5,843 91	
Building contract	25,498 30	
Cleaning trees	17 44	
Copy of deed	2 35	
Heating contract	4,193 00	
Plans	100 00	
Stationery, printing and office supplies	20 45	
Water rates	24 60	
Total		35,767 77
Balance of appropriation		$65,081 53

SEWER DEPARTMENT MAINTENANCE

Appropriation			$20,000 00
EXPENDED			
For salaries of:			
Superintendent of Sewers	$2,000 00		
Clerk	419 00		
		$2,419 00	
Labor, as per payroll		9,599 73	
Compensation		64 28	
Automobile license and registration		12 00	
Automobile supplies and repairs		519 60	
Automobile (new)		269 50	
Bricks		75 33	
Car tickets		30 00	
Carriage, cart and wagon repairs		51 62	
Cleaning catch basins		3,745 50	
Cleaning trees		2 48	
Fuel		33 29	
Gravel, sand, etc.		85 24	
Harness, repairs and horse clothing		27 24	
Hay, grain and straw		493 45	
Horseshoeing		90 89	
House repairs	$184 12		
Plumbing	316 30		
Drain repairs	16 82		
		517 24	
Ice		5 50	
Lighting		6 39	
Lumber and milling		150 13	
Rubber boots and clothing		36 85	
Services of physician (Compensation Act)		27 00	
Street repairs		55 61	
Amounts carried forward		$18,317 88	$20,000 00

Health and Sanitation—Continued

SEWER DEPARTMENT MAINTENANCE—Continued

Amounts brought forward	$18,317 88	$20,000 00
Street dump carts	464 00	
Stationery, printing and office supplies	49 98	
Tools and miscellaneous supplies	106 86	
Telephone service	76 07	
Teaming	309 31	
Total		$19,324 10
Surplus of appropriation transferred to Reserve Fund		$675 90

SEWER DEPARTMENT MAINTENANCE

SUMMARY

For repairing catch basins:		
Labor	$551 60	
Supplies	82 33	
		$633 93
Cleaning catch basins:		
Labor	2,982 86	
Teaming	20 56	
Supplies	4,306 29	
		7,309 71
Cleaning and repairing gates:		
Labor	974 25	
Supplies	1 47	
		975 72
Cleaning sumps:		
Labor	447 75	
		447 75
Cleaning and flushing sewers:		
Labor	1,149 13	
Teaming	213 50	
Supplies	72 50	
		1,435 13
Manhole repairs:		
Labor	262 18	
Supplies	13 13	
		275 31
General expense:		
Labor	1,095 25	
Salary of superintendent	2,000 00	
Pensions	1,059 49	
Supplies	1,863 61	
		6,018 35
Office expenses:		
Labor	419 00	
Supplies	49 44	
		468 44
Amount carried forward		$17,564 34

Health and Sanitation—Continued

SEWER DEPARTMENT MAINTENANCE—Continued

Amounts brought forward		$17,564 34	
Sewer Repairs:			
Labor	469 51		
Teaming	12 25		
Supplies	129 50		
		611 26	
Stable account:			
Labor	427 33		
Supplies	721 17		
		1,148 50	
			$19,324 10

SEWER DEPARTMENT, CONSTRUCTION GENERAL

Appropriation	$30,000 00
Revenue re-appropriated	6,346 17
	$36,346 17

EXPENDED

For labor, as per payroll	$17,466 89	
Engineering, as per payroll	768 50	
Auto repairs	34	
Blacksmithing	51 23	
Bricks	316 37	
Catch basin traps	88 20	
Cement	521 21	
Frames, grates and covers	267 82	
Fuel	16 52	
Gravel, sand, etc	269 89	
Hose	16 42	
Lanterns	1 47	
Lighting	9 55	
Lumber and milling	1,051 17	
Oil, gasoline and grease	28 02	
Piles and pile driving	88 20	
Pipes and fittings	1,228 67	
Printing	3 92	
Pump repairs	37 79	
Repairing pavements	109 97	
Rubber boots and clothing	67 62	
Sand	283 42	
Services of physician	3 00	
Sharpening tools	42 40	
Steel rods	49 85	
Stone	38 74	
Tools and miscellaneous supplies	231 63	
Amounts carried forward	$23,058 81	$36,346 17

Health and Sanitation—Continued

SEWER DEPARTMENT, CONSTRUCTION GENERAL—Continued

Amounts brought forward	$23,058 81	$36,346 17
Tamping machine	122 50	
Tractor, one-half	49 00	
Teaming, as per payroll	66 00	
Total		23,296 31
Balance of appropriation		$13,049 86

SUMMARY

Allston Street Sewer:		
Labor	$570 49	
Supplies	52 04	
		622 53
Coolidge Road Sewer:		
Labor	$838 70	
Supplies	169 08	
		1,007 78
Fayerweather Street Sewer:		
Labor	$3,583 79	
Teaming	21 00	
Supplies	1,165 97	
		4,770 76
Fourth Street Sewer:		
Labor	$914 02	
Supplies	65 69	
		979 71
Lakeview Avenue Sewer:		
Labor	$147 25	
Supplies	8 54	
		155 79
Larchwood District Sewer:		
Labor	$5,905 12	
Supplies	1,007 96	
		6,913 08
New Catch Basins:		
Labor	$321 53	
Supplies	362 55	
		684 08
Plympton Street Extension Sewer:		
Labor	$1,255 98	
Teaming	6 00	
Supplies	289 42	
		1,551 40
Amount carried forward		$16,685 13

Health and Sanitation—Continued

SEWER DEPARTMENT, CONSTRUCTION GENERAL—Concluded

Amount brought forward		$16,685 13
Scott Street Sewer:		
Labor	$672 72	
Teaming	33 00	
Supplies	139 27	
		844 99
Shadyhill Square Sewer:		
Labor	$481 63	
Supplies	193 18	
		674 81
Vassar Street Sewer:		
Labor	$2,634 58	
Teaming	6 00	
Supplies	680 79	
		3,321 37
Warwick Park Sewer:		
Supplies	8 90	
		8 90
Waverly Street Sewer:		
Labor	$806 39	
Supplies	104 98	
		911 37
General Expenses:		
Labor	$66 78	
Supplies	782 96	
		849 74
		$23,296 31

SEWER DEPARTMENT, SEPARATE SYSTEM OF DRAINAGE

Appropriation from 1914-15	$2,268 32
Additional appropriation	15,000 00
	$17,268 32

EXPENDED

For labor, as per payroll	$13,901 99	
Engineering, as per payroll	574 50	
Advertising	9 75	
Bricks	391 27	
Cement	205 29	
Frames, grates and covers	136 97	
Gasoline	13 72	
Gravel, sand, etc.	96 24	
Lumber and milling	339 57	
Oil, lanterns, etc.	29 24	
Pipes and fittings	1,040 62	
Plumbing	5 86	
Rubber boots	1 88	
Amounts carried forward	$16,746 90	$17,268 32

Health and Sanitation—Continued

SEWER DEPARTMENT, SEPARATE SYSTEM OF DRAINAGE—Concluded

Amounts brought forward	$16,746 90	$17,268 32
Services of physician	11 00	
Sharpening tools	63 14	
Stone	13 50	
Tamping machine	122 50	
Tools and miscellaneous supplies	184 74	
Tractor, one-half	49 00	
Teaming, as per payroll	45 00	
Total		17,235 78
Balance of appropriation		$32 54

SUMMARY

General Expense:		
Supplies	$502 08	
		502 08
Appleton Street District:		
Labor	$12 50	
Teaming	18 00	
Supplies	35 22	
		65 72
Camelia Avenue District:		
Labor	$911 98	
Supplies	71 51	
		983 49
Huron Avenue District:		
Labor	$9,830 94	
Teaming	15 00	
Supplies	1,294 95	
		11,140 89
Larchwood District:		
Supplies	$351 62	
		351 62
Leonard Avenue District:		
Labor	$1,805 60	
Supplies	163 65	
		1,969 25
Longfellow Park District:		
Labor	$92 51	
Supplies	17 59	
		110 10
Manasses Avenue District:		
Labor	$267 75	
Supplies	22 56	
		290 31
Reservoir Street District:		
Labor	$998 43	
Teaming	6 00	
Supplies	184 09	
		1,188 52
Amount carried forward	$16,602 98	

Health and Sanitation—Continued

SEWER DEPARTMENT, SEPARATE SYSTEM OF DRAINAGE—Concluded

Amount brought forward		$16,602 98	
Standish Street District:			
Labor	$389 76		
Supplies	55 96		
		445 72	
Vassal Street District:			
Labor	$167 02		
Teaming	6 00		
Supplies	15 06		
		188 08	
			$17,235 78

HOUSE OFFAL

Labor

Appropriation		$44,000 00
EXPENDED		
For labor, as per payroll	$44,296 69	
Pension for two months	413 82	
Total		44,710 51
Excess of expenditure over appropriation		$710 51
Transfer from Reserve Fund		710 51

Pensions

Appropriation		$2,423 69
EXPENDED		
For pensions granted laborers	$1,977 14	
Total		1,977 14
Surplus of appropriation transferred to Reserve Fund		$446 55

General Expenses

Appropriation		$8,000 00
EXPENDED		
For carpentry	$714 93	
Disinfectant	36 46	
Fuel	37 62	
Hay, grain and straw	7,271 97	
Harness repairs and horse clothing	377 66	
Horse	675 00	
Amounts carried forward	$9,113 64	$8,000 00

Health and Sanitation—Continued

HOUSE OFFAL—Concluded

Amounts brought forward	$9,113 64	$8,000 00
Horse hire	9 55	
Horseshoeing and clipping	1,274 32	
Laundry	13 86	
Lighting	46 74	
Lime and cement	13 23	
Lumber	17 64	
Medical attendance	18 00	
Medicines, drugs, etc	45 32	
Miscellaneous supplies for repairs	35 77	
Printing, stationery, etc	92 90	
Rebate on offal	8 40	
Salt	7 88	
Shovels, etc.	146 61	
Soap	6 41	
Stable repairs	1,122 26	
Stove and radiator	37 22	
Telephone service	27 83	
Wagons	2,115 22	
Wagon repairs	971 39	
Total		15,124 19
Excess of expenditure over appropriation		$7,124 19
Transfer from Reserve Fund		7,124 19

HOUSE OFFAL—REBUILDING STABLES

Appropriation		$3,000 00
EXPENDED		
For labor, as per payroll	$56 50	
Contract	2,936 00	
Total		2,992 50
Surplus of appropriation transferred to Reserve Fund		$7 50

COLLECTION OF ASHES

Apropriation			$68,000 00
EXPENDED			
For salary of foreman	$1,300 00		
Labor, as per payroll	62,050 10		
Compensation	290 00		
		$63,640 10	
Ash cart covers		119 36	
Automobile repairs		753 16	
Amounts carried forward		$64,512 62	$68,000 00

Health and Sanitation—Continued

COLLECTION OF ASHES—Concluded

Amounts brought forward	$64,512 62	$68,000 00
Dumping privileges	415 25	
Hardware, tools, etc.	307 25	
Harness and repairs	905 20	
Hay, grain, etc.	11,353 85	
Horseshoeing and stock	596 95	
Medicine for horses	42 77	
Painters' supplies	36 65	
Services of physician (Compensation Act)	33 00	
Sundries	15 29	
Teaming, as per payroll	154 75	
Wagon repairs	426 26	
Total		78,799 84
Excess of expenditure over appropriation		$10,799 84
Transferred from Emergency Fund	$2,600 00	
Transferred from Reserve Fund	8,199 84	
		10,799 84

STREET CLEANING

Appropriation			$57,000 00
EXPENDED			
For section men	$22,869 18		
General cleaners	24,772 83		
		$47,642 04	
Dumping privileges		50 00	
Harness repairs		221 84	
Hay, grain and straw		4,473 34	
Horseshoeing and stock		21 31	
Machine sweeper repairs		27 69	
New equipment		73 50	
Refilling machine sweeper		216 53	
Sundries		12 25	
Tools, hardware, etc.		1,675 57	
Teaming, as per payrolls		4,638 75	
Total			59,052 82
Excess of expenditure over appropriation			$2,052 82
Transferred from Reserve Fund			2,052 82

SNOW REMOVAL

Appropriation	$5,000 00
Amount carried forward	$5,000 00

Health and Sanitation—Concluded

SNOW REMOVAL—Concluded

Amount brought forward		$5,000 00
EXPENDED		
For sectionmen	$3,802 51	
School houses	1,282 57	
General	6,360 85	
Labor, as per payrolls	536 25	
	11,982 18	
Hay, grain, etc	568 16	
Hardware, tools, etc	136 99	
Salt	16 17	
Teaming	150 75	
Total		12,854 25
Excess of expenditure over appropriation		$7,854 25
Transferred from Emergency Fund	$4,900 00	
Transferred from Reserve Fund	2,954 25	
		7,854 25

GAME WARDEN

Appropriation		$50 00
EXPENDED		
For services of game warden	$50 00	
Total		50 00

HIGHWAYS AND BRIDGES

STREET DEPARTMENT

SALARIES OF SUPERINTENDENT OF STREETS AND CLERKS

Appropriation		$6,904 00
EXPENDED		
For salaries of:		
Superintendent of Streets	$2,294 75	
Office clerks	3,572 00	
Yard clerks	522 00	
Total		6,388 75
Surplus of appropriation transferred to Reserve Fund		$515 25

Highways and Bridges—Continued

PENSIONS

Appropriation		$4,553 80
EXPENDED		
For foreman	$600 00	
Laborers, as per payroll	4,201 60	
Total		4,801 60
Excess of expenditures over appropriation		$247 80
Transferred from Reserve Fund		247 80

STREET MAINTENANCE

Appropriation		$89,300 00
Transferred from Park Department for care of horses		432 00
Transferred from Sealer of Weights and Measures for care of horses		216 00
		$89,948 00
EXPENDED		
For salaries of district foremen	$2,257 00	
Stablemen	15,679 94	
Carpenters	5,237 49	
Harness makers	772 50	
Painters	3,931 10	
Labor, as per payroll	26,584 65	
Compensation	30 00	
	$56,962 43	
Office expenses:		
Advertising	$44 75	
Directories	9 00	
Stationery, printing and office supplies	627 93	
Subscription	6 00	
Telephone service	284 58	
Water	8 34	
	980 60	
Automobile registration and license	60 47	
Automobile hire	104 86	
Automobile supplies and repairs	2,568 72	
Carriage and wagon repairs	399 38	
Fuel	1,790 93	
Gravel and freight	1,031 98	
Harness and repairs	746 58	
Hay, grain and straw	4,608 03	
Horseshoeing, stock and clipping	242 65	
Amounts carried forward	$69,496 45	$89,948 00

Highways and Bridges—Continued

STREET MAINTENANCE—Concluded

Amounts brought forward		$69,496 45	$89,948 00
Lighting:			
Electric light	$763 71		
Lamps, lanterns and oil	57 45		
		821 16	
Lumber		509 55	
Medical aid, due to Compensation Act		63 00	
New equipment		4,000 00	
Painters' supplies		377 31	
Renewals and repairs		414 95	
Stable supplies		598 81	
Steam roller, supplies and repairs		938 04	
Stone crusher, supplies and repairs		65 83	
Stone (crushed)		9,087 32	
Special road treatment		8,030 10	
Street signs		189 73	
Teaming, as per payroll		276 75	
Tools, hardware and miscellaneous supplies		1,041 93	
Sundries:			
Car tickets	$45 00		
Damages to private property	141 02		
Expenses of trip to New York	26 00		
Express and freight	23 54		
Housing and raising topmast	48 02		
Miscellaneous supplies	38 92		
Use of horse	11 76		
Use of ambulance for horse	4 90		
		339 16	
Repairs:			
Bithulithic pavement	$486 65		
Bricks and cement	155 07		
		641 72	
Total			96,891 99
Excess of expenditure over appropriation			$6,943 99
Transferred from Reserve Fund			6,943 99

SIDEWALK REPAIRS

Appropriation	$7,000 00
Appropriation from revenue, Water Department	300 00
	$7,300 00

EXPENDED

For labor, as per payroll	$5,492 94	
Artificial stone sidewalks	66 31	
Bricks	475 82	
Edgestone	122 03	
Gravel and freight	228 77	
Amounts carried forward	$6,385 87	$7,300 00

Highways and Bridges—Continued

SIDEWALK REPAIRS—Concluded

Amounts brought forward	$6,385 87	$7,300 00
Hardware, tools, etc	97 51	
New equipment	509 60	
Printing	6 37	
Teaming, as per payroll	229 50	
Total		7,228 85
Surplus of appropriation transferred to Reserve Fund		$71 15

SPRINKLING

Appropriation		$40,000 00
EXPENDED		
For labor, as per payroll	$2,482 46	
Salary of foreman	1,317 75	
Automobile supplies and repairs	338 98	
Hay, grain, etc	238 53	
Miscellaneous supplies	41 60	
Special road treatment	22,190 74	
Sprinkling streets by contractors	11,830 15	
Watering cart repairs	310 79	
Teaming, as per payrolls	481 50	
Total		39,232 50
Surplus of appropriation transferred to Reserve Fund		$767 50

STREET DEPARTMENT—BRIDGES

Appropriation		$14,000 00
EXPENDED		
For salaries of drawtenders	$12,305 21	
Asphalt	232 80	
Blacksmithing	18 82	
Chairs	9 80	
Fuel	66 44	
Lighting, shanty and motor service	469 46	
Lumber	874 87	
Repairing motor	49 27	
Rent of motor	6 00	
Services of flagman on account of repairs	57 85	
Tools and miscellaneous supplies	81 68	
Labor, as per payrolls	610 64	
Total		14,782 84
Excess of expenditure over appropriation		$782 84
Transferred from Reserve Fund		782 84

Highways and Bridges—Continued

STREET DEPARTMENT BRIDGES

SUMMARY—Expenses

For salaries of drawtenders and assistants		$12,305 21	
Commercial Avenue Bridge:			
Labor	$119 39		
Supplies	498 77		
		618 16	
First Street Bridge:			
Labor	$180 81		
Supplies	544 42		
		725 23	
Huron Avenue Bridge:			
Labor	$20 00		
Supplies	174 25		
		194 25	
Sixth Street Bridge:			
Labor	$68 00		
Supplies	226 82		
		294 82	
Third Street Bridge:			
Labor	$226 25		
Supplies	269 17		
		495 42	
Walden Street Bridge:			
Supplies	$6 25		
		6 25	
Porter Square Bridge:			
Supplies	$6 25		
		6 25	
Mount Auburn Street Bridge:			
Labor	$6 00		
Supplies	14 85		
		20 85	
Huron Avenue Pipe Line Bridge:			
Supplies	$116 40		
		116 40	
Total			$14,782 84

HORSES AND AUTOMOBILES

Appropriation			$9,000 00
EXPENDED			
For automobiles		$1,733 96	
Horses		9,075 00	
Total			10,808 96
Excess of expenditure over appropriation			$1,808 96
Transferred from Reserve Fund			1,808 96

Highways and Bridges—Continued

BRICK AND BITHULITHIC REPAIRS

Appropriation		$3,000 00
EXPENDED		
For bithulithic surface	$3,000 00	
Total		3,000 00

CROSSINGS

Appropriation		$700 00
EXPENDED		
For labor, as per payroll	$645 53	
Lighting	22 25	
Lumber	11 88	
Total		679 66
Surplus of appropriation transferred to Reserve Fund		$20 34

EDGESTONES AND SIDEWALKS

Appropriation		$7,500 00
Transferred from Revenue		4,616 81
		$12,116 81
EXPENDED		
For labor, as per payrolls	$5,093 42	
Allowance on artificial stone	1,432 29	
Bricks	1,395 50	
Edgestones	2,204 30	
Gravel, freight, sand, etc.	337 67	
Hardware, tools, etc.	328 20	
Hay, grain and straw	436 51	
Lighting	77 07	
Refund on bill	287 04	
Sundries	24 50	
Teaming	114 00	
Total		11,630 50
Balance of appropriation		$486 31

REBUILDING AND CONSTRUCTION STREETS

BOYLSTON STREET

Appropriation	$12,500 00
Amount carried forward	$12,500 00

Highways and Bridges—Continued

REBUILDING AND CONSTRUCTING STREETS—BOYLSTON STREET—Concluded

Amount brought forward		$12,500 00
EXPENDED		
For labor, as per payroll	$3,970 51	
Bithulithic pavement	3,994 87	
Cement	836 53	
Concrete stone	683 75	
Gravel and freight	160 96	
Hardware, tools, etc	125 54	
Hay, grain and straw	132 82	
Lighting	9 95	
Sundries	4 78	
Topping (Bithulithic)	1,981 63	
Teaming	307 50	
Wood blocks	100 00	
Total		12,499 79
Balance of appropriation		$ 21

CEDAR STREET

Appropriation		$3,500 00
EXPENDED		
For labor, as per payroll	$433 56	
Crushed stone	1,284 66	
Fuel	83 92	
Lighting	23 37	
Standard binder	1,316 25	
Total		3,141 76
Balance of appropriation		$358 24

CHESTNUT STREET

Appropriation		$3,250 00
EXPENDED		
For labor, as per payroll	$760 85	
Crushed stone	699 67	
Fuel	19 62	
Tarilithic surface	1,281 00	
Total		2,761 14
Balance of appropriation		$488 86

Highways and Bridges—Continued

REBUILDING AND CONSTRUCTING STREETS—Continued

CONCORD AVENUE

Appropriation		$38,000 00
EXPENDED		
For labor, as per payroll	$2,802 51	
Contract (bithulithic)	33,860 92	
Teaming	570 75	
Total		37,234 18
Balance of appropriation		$765 82

GARDEN STREET

Appropriation		$5,500 00
EXPENDED		
For labor, as per payroll	$725 76	
Crushed stone	1,433 82	
Hay, grain, etc	29 40	
Lighting	20 73	
Standard binder	1,573 00	
Total		3,782 71
Balance of appropriation		$1,717 29

HINGHAM, STILES AND AKRON STREETS

Appropriation		$7,500 00
EXPENDED		
For labor, as per payroll	$5,899 41	
Concrete stone	17 86	
Gravel and freight	202 49	
Hay, grain, etc	103 24	
Hardware, tools, etc	14 70	
Lighting	65 02	
Sundries	1 44	
Teaming	1,195 50	
Total		7,499 66
Balance of appropriation		$ 34

Highways and Bridges—Continued

REBUILDING AND CONSTRUCTING STREETS—Continued

HURON AVENUE

Appropriation		$60,000 00
Transferred to Massachusetts Avenue		1,510 22
		$58,489 78
EXPENDED		
For labor, as per payroll	$17,613 52	
Compensation	128 58	
Bithulithic surface	24,993 90	
Cement	2,777 06	
Concrete stone	1,844 28	
Crushed stone	3,704 70	
Edgestone	427 67	
Fuel	83 22	
Gravel and freight	1,010 89	
Hardware, tools, etc.	86 79	
Harness repairs	36 25	
Hay, grain, etc.	943 09	
Lighting	168 61	
Lumber	29 70	
New equipment (concrete mixer)	965 00	
Teaming	1,862 25	
Total		56,675 51
Balance of appropriation		$1,814 27

LOWELL STREET

Appropriation		$1,500 00
EXPENDED		
For labor, as per payroll	$250 50	
Crushed stone	382 48	
Fuel	16 88	
Total		649 86
Balance of appropriation		$850 14

MASSACHUSETTS AVENUE, BIGELOW STREET TO QUINCY SQUARE

Appropriation		$50,000 00
Transferred from Huron Avenue		1,510 22
		$51,510 22
Amount carried forward		$51,510 22

Highways and Bridges—Continued

REBUILDING AND CONSTRUCTING STREETS—Continued

Amount brought forward		$51,510 22

EXPENDED

For labor, as per payroll	$15,793 94	
Advertising	1 84	
Bricks	110 61	
Cement	2,034 65	
Crushed stone	1,059 33	
Expansion joints	432 59	
Fuel	45 70	
Gravel and freight	807 46	
Hardware and tools	303 76	
Hay, grain, etc	51 92	
Lighting	156 70	
Lumber	87 17	
Wood blocks	26,254 80	
Unloading and delivering wood blocks	1,610 50	
Teaming	2,759 25	
Total		51,510 22

MUNROE STREET THIRD TO SIXTH STREET

Re-appropriation, 1914-15	$2,500 00
Appropriation, 1915-16	7,000 00
	$9,500 00

EXPENDED

For labor, as per payroll	$2,727 40	
Cement	108 39	
Crushed stone	74 63	
Edgestone	308 18	
Fuel	45 50	
Gravel and freight	239 77	
Hay, grain and straw	241 00	
Lighting	18 52	
Rent of engine	4 34	
Teaming	586 50	
Total		4,354 23
Balance of appropriation		$5,145 77

WINDSOR STREET

Appropriation	$2,500 00
Amount carried forward	$2,500 00

Highways and Bridges—Continued

REBUILDING AND CONSTRUCTING STREETS—Continued

Amount brought forward		$2,500 00
EXPENDED		
For labor, as per payroll	$841 17	
Crushed stone	761 23	
Fuel	68 34	
Lighting	12 00	
Tarvia	783 44	
Total		2,466 18
Balance of appropriation		$33 82

WINDSOR STREET, HARVARD TO HAMPSHIRE STREET

Appropriation		$3,250 00
EXPENDED		
For labor, as per payroll	$369 38	
Crushed stone	990 12	
Fuel	40 42	
Hardware, tools, etc	34 30	
Tarilithic surface	1,246 00	
Total		2,680 22
Balance of appropriation		$569 78

LAWN STREET

Appropriation		$1,900 00
Transferred to Washburn Avenue		15 28
		$1,884 72
EXPENDED		
For labor, as per payroll	$1,509 14	
Edgestone	15 03	
Gravel and freight	164 51	
Sewer work:		
Bricks $50 23		
Catch basin 8 99		
	59 22	
Total		1,747 90
Balance of appropriation		$136 82

Highways and Bridges—Continued

REBUILDING AND CONSTRUCTING STREETS—Concluded

PUTNAM AVENUE

Appropriation		$100 00
EXPENDED		
For taking land:		
T. F. Tracey, attorney for Dennis McCarthy	$100 00	
Total		100 00

WASHBURN AVENUE

Appropriation		$500 00
Transferred from Lawn Street		15 28
		$515 28
EXPENDED		
For labor, as per payroll	$142 25	
Crushed stone	19 27	
Edgestone	53 76	
Total		215 28
Balance of appropriation		$300 00

VASSAR STREET

Appropriation		$5,000 00
EXPENDED		
For labor, as per payroll	$1,740 44	
Crushed stone	357 89	
Hardware and tools	27 58	
Sewer work	15 06	
Teaming	701 25	
Total		2,842 22
Balance of appropriation		$2,157 78

Highways and Bridges—Continued

LAND DAMAGES

Re-appropriation, 1915	$ 40
Appropriations	11,000 00
	$11,000 40

EXPENDED

Land and damage, extension of Waverly Street, Boyden, Palfrey, Bradley & Twombly, attorneys for Preso-Lite Co.	$2,000 00		
Hale, Oveson & Kendall, attorneys for C. W. Dimmick	6,000 00		
Washburn Avenue, W. S. Blewett	300 00		
Commercial Avenue, Frank Kaan, attorney for George O. Proctor	500 00		
Massachusetts Avenue, corner Douglass Street, Joseph E. Doherty, Trustees	1,500 00		
		10,300 00	
Expenses:			
Services of expert:			
Presto-Lite Case	$75 00		
Dimmick Case	100 00		
		175 00	
Searching titles		35 00	
Total			$10,510 00
Balance of appropriation			$490 40

BOSTON AND CAMBRIDGE BRIDGES

Salaries

Appropriation	$12,000 00

EXPENDED

For salaries of:			
Bridge Commissioner		$1,000 00	
Clerks		250 00	
Drawtenders and assistants:			
At Cambridge Bridge	$1,595 07		
Harvard Bridge	2,878 80		
Prison Point Bridge	2,886 18		
River Street, Western Avenue, and Boylston Street Bridge	2,726 67		
Substitutes	310 50		
		10,397 22	
Total			11,647 22
Surplus of appropriation transferred to Reserve Fund			$352 78

Highways and Bridges—Continued

BOSTON AND CAMBRIDGES—Continued

General Expenses

Appropriation			$7,000 00
EXPENDED			
For Commissioners' and office expenses:			
Car tickets	$10 00		
Insurance	222 22		
Postage and stationery	54 19		
Telephone service	27 54		
Use of automobile	100 00		
		$413 95	
Cambridge Bridge:			
Brooms	$2 00		
Lighting	1,640 53		
Repaving	8 00		
Sand	3 37		
Teaming	75 00		
Tools and miscellaneous supplies	35 58		
		1,764 48	
Harvard Bridge:			
Blacksmithing	$59 85		
Carpentry	342 95		
Cleaning	133 94		
Fence repairs	34 65		
Fuel	31 31		
Ice	3 00		
Lighting	861 83		
Lumber	130 81		
Sand and spreading	28 00		
Tools and miscellaneous supplies	62 05		
		1,688 39	
Brookline Street Bridge:			
Carpentry	$49 50		
Lighting	222 70		
Lumber	48 35		
Sand	3 50		
Tools and miscellaneous supplies	1 94		
		325 99	
Prison Point Bridge:			
Carpentry	$387 41		
Fuel	18 80		
Iron work	22 95		
Lighting	12 60		
Lumber	357 84		
Printing	45 00		
Tools and miscellaneous supplies	33 43		
		878 03	
River Street Bridge:			
Carpentry	$332 96		
Fuel	12 54		
Ice	5 95		
Amounts carried forward	$351 45	$5,070 84	$7,000 00

Highways and Bridges—Continued

BOSTON AND CAMBRIDGE BRIDGES, GENERAL EXPENSES—Concluded

Amounts brought forward	$351 45	$5,070 84	$7,000 00
Lighting	25 62		
Lumber	121 96		
Tools and miscellaneous supplies	30 87		
		529 90	
Western Avenue Bridge:			
Carpentry	$421 32		
Lighting	25 62		
Lumber	158 12		
Repairs to fence	212 50		
Tools and miscellaneous supplies	20 87		
		838 43	
Anderson Bridge:			
Lighting	$156 92		
Lumber	9 92		
Sand	5 50		
		172 34	
Total			6,611 51
Surplus of appropriation transferred to Reserve Fund			$388 49

CAMBRIDGE BRIDGE

Reappropriation, 1914-15	$477 17
Appropriation	60,000 00
	$60,477 17

EXPENDED

For labor, as per payroll		$290 00	
Advertising		33 63	
Analysis of paint		40 00	
Land damage (approach to bridge), Sumner Robinson, attorney for J. Frank Wellington.		44,268 32	
Printing, stationery, etc		20 81	
Repairs:			
Cleaning and painting	$2,503 25		
Repairs	295 62		
Lamp repairs	321 19		
		3,120 06	
Supplies for repairs			
Paint, etc.		2,861 96	
Sundries		3 25	
Total			50,638 03
Balance of appropriation			$9,839 14

Highways and Bridges—Continued

WALDEN STREET BRIDGE

Re-appropriation, 1914-15	$272 93
Balance of appropriation	272 93

STREET LIGHTING

Salaries

Appropriation		$1,000 00
EXPENDED		
For salary of Supt. of Lamps (part salary)	$750 00	
Total		750 00
Surplus of appropriation transferred to Reserve Fund		$250 00

General Expenses

Appropriation			$71,000 00
EXPENDED			
For automobile registration		$10 00	
Automobile supplies and repairs		485 53	
Lighting streets:			
Electric	$62,787 46		
Gas	2,647 73		
Rent and maintenance of lamps	4,191 34		
		69,626 53	
Oil and gasoline		72 64	
Rent of stable		96 00	
Stationery, printing and office supplies		46 91	
Total			70,337 61
Surplus of appropriation transferred to Reserve Fund			$662 39

CHARITIES

CITY FARM LABOR

Appropriation		$3,550 00
EXPENDED		
For salary of farmer	$860 00	
Pension of foreman	90 00	
Labor, as per payroll	2,600 29	
Total		3,550 29
Excess of expenditure over appropriation		$ 29
Transfer from Reserve Fund		29

Charities—Continued

CITY FARM LABOR—Concluded

General Expenses

Appropriation		$1,000 00
EXPENDED		
For hay, grain and straw	$188 81	
Harness repairs	5 93	
Horseshoeing	25 25	
Lighting	2 23	
Livestock	92 50	
Painting	43 63	
Rent of stand, at Mercantile Wharf Corporation	100 00	
Seeds and plants	229 27	
Tools and miscellaneous supplies	16 35	
Wagon repairs	63 95	
Total		767 92
Surplus of appropriation transferred to Reserve Fund		$232 08

CITY HOME

Salaries

Appropriation		$8,500 00
EXPENDED		
For salaries of:		
Superintendent	$1,517 31	
Sundry house employees	7,627 20	
Total		9,144 51
Excess of expenditure over appropriation		$644 51
Transfer from Reserve Fund		644 51

General Expenses

Appropriation			$20,000 00
EXPENDED			
For advertising		$11 14	
Ambulance		4 90	
Board at hospital		21 00	
Burials		491 00	
Car tickets		245 00	
Care and repair of buildings:			
Bricks, lime, cement, etc.	$9 93		
Carpentry and lumber	191 65		
Electrical supplies	62 52		
Heating apparatus and supplies	197 47		
Amounts carried forward	$461 57	$773 04	$20,000 00

Charities—Continued

CITY HOME—GENERAL EXPENSES—Concluded

Amounts brought forward	$461 57	$773 04	$20,000 00
Plumbing	57 34		
Painting and supplies	304 82		
Roof repairs	51 39		
Tools and miscellaneous supplies	251 83		
Use of steam boiler	634 06		
Windows	241 52		
		2,002 53	
Care of eyes, spectacles, etc		124 70	
Cash to inmates		323 25	
Cash for sundries		10 67	
Cleaning trees		30 88	
Clergymen		18 00	
Clothing, dry goods, etc		3,236 13	
Directory		4 50	
Disinfectant and insecticide		81 20	
Expressage and teaming		34 05	
Fire extinguishers		84 00	
Flowers and vases		6 86	
Fuel		1,707 71	
Furniture and furnishings		909 60	
Harness repairs		79 48	
Hay, grain and straw		23 80	
Horseshoeing and clipping		54 55	
Ice		265 94	
Laundry supplies		283 48	
Lighting		321 77	
Medical and surgical supplies		1,162 06	
Motor service		27 00	
Newspapers		46 20	
Paper napkins, etc		46 10	
Rent of room for attendant		40 00	
Stationery, printing and office supplies		101 66	
Subsistence supplies		14,751 01	
Telephone service		102 68	
Tobacco		592 99	
Use of automobile		209 00	
Use of horse		34 00	
Total			27,488 84
Excess of expenditure over appropriation			$7,488 84
Transferred from Reserve Fund			7,488 84

RESTORING AND CONSTRUCTING CITY HOME

Appropriation from 1914-15	$38,377 00
New appropriation	15,000 00
	$53,377 00
Amount carried forward	$53,377 00

Charities—Continued

RESTORING AND CONSTRUCTING CITY HOME—Concluded

Amount brought forward		$53,377 00

EXPENDED

For advertising	$138 02	
Architects' fees	1,983 67	
Blue prints	20 36	
Building contract	31,295 30	
Electrical work	896 75	
Engineer's services	467 81	
Heating and ventilating	4,276 81	
Plumbing	4,969 44	
Total		44,048 16
Balance of appropriation		$9,328 84

CITY HOME HOSPITAL

Salaries

Appropriation		$1,081 60

EXPENDED

For salaries:		
Nurses	$612 00	
Attendant	312 00	
Laundress	145 60	
Total		1,069 60
Surplus of appropriation transferred to Reserve Fund		$12 00

General Expenses

Appropriation		$605 00

EXPENDED

For food	$13 56	
Fuel	207 05	
Lighting	135 09	
Medical supplies	135 23	
Repairs	117 33	
Total		608 26
Excess of expenditures over appropriation		$3 26
Transferred from Reserve Fund		3 26

Charities—Continued

OUTSIDE AID

Salaries

Appropriation	$8,063 00

EXPENDED

For salaries of:		
Secretary of overseers of poor	$1,643 15	
Visitor	2,044 00	
Clerk, permanent	910 00	
Clerk, temporary	84 00	
Driver of aid wagon	884 00	
Agent	780 00	
City physician	2,000 00	
Total		8,345 15
Excess of expenditures over appropriation		$282 15
Transfer from Reserve Fund		282 15

General Expenses

Appropriation	$65,000 00

EXPENDED

For general administration:			
Advertising	$11 76		
Automobile hire	4 00		
Automobile registration	10 00		
Automobile storage	40 00		
Automobile supplies and repairs	101 05		
Car tickets	500 00		
Directories	28 50		
Disinfectant	7 50		
Electrical supplies	5 94		
Floral tribute	7 50		
Harness repairs	2 75		
Horse	350 00		
Horseshoeing	20 09		
Ice	23 76		
Laundry and towel supplies	14 32		
Lighting	54 50		
Services of physician	95 00		
Services of stenographer	52 80		
Stationery, printing and office supplies	311 80		
Telephone service	121 39		
Wagon repairs	249 50		
		$2,012 16	
Amounts carried forward		$2,012 16	$65,000 00

Charities—Concluded

OUTSIDE AID, GENERAL EXPENSES—Concluded.

Amounts brought forward		$2,012 16	$65,000 00
Outside Relief:			
Board and care of children:			
By State Board of Charity	$78 29		
In institutions	2,996 69		
In private homes	2,577 31		
		5,652 29	
Board at state infirmary	$126 20		
Board at hospitals	4,832 25		
Partial support	1,286 80		
Burials	692 50		
Cash aid	20,710 00		
Cash aid, mothers' aid	33,317 00		
		60,964 75	
Expenses on account of persons sent to institutions:			
Ambulance hire	$456 88		
Attendants	68 00		
Railroad fares, etc	61 05		
Serving notices	5 95		
		591 88	
Supplies and distribution:			
Baskets	$62 82		
Clothing	475 09		
Food	16,734 30		
Fuel	2,332 23		
Medical and surgical supplies	1,127 57		
Paper and twine	133 42		
Soap	362 05		
		21,227 48	
Relief given by other cities and towns		5,925 95	
Total			96,374 51
Excess of expenditure over appropriation			$31,374 51
Transfer from Emergency Fund		$25,000 00	
Transfer from Reserve Fund		6,374 51	
			31,374 51

SOLDIERS' BENEFITS

STATE AID—SOLDIERS' RELIEF

Appropriation			$33,000 00
EXPENDED			
For general administration:			
Salary of Clerk	$668 71		
Pension of Clerk	381 29		
		$1,050 00	
Amounts carried forward		$1,050 00	$33,000 00

Soldiers' Benefits—Concluded

STATE AID, SOLDIERS' RELIEF—Concluded.

Amounts brought forward		$1,050 00	$33,000 00
Soldiers' burials:			
Burial agent	$28 00		
Burials	690 00		
		718 00	
State Aid, as per payroll		12,040 00	
Military Aid, as per payroll		703 00	
Soldiers' Relief, as per payroll		17,793 00	
Board, City Home		176 39	
Board, hospitals		122 53	
Car tickets		5 00	
Carriage and ambulance hire		15 00	
Clothing		12 48	
Fuel		52 35	
Medicine		2 43	
Relief by other cities and towns		97 86	
Services of physician		17 00	
Subsistence supplies		78 58	
Transportation		16 99	
Stationery, printing and office supplies		97 85	
Total			32,998 46
Surplus of appropriation transferred to Reserve Fund			$1 54

CARING FOR SOLDIERS' GRAVES

Appropriation from Reserve Fund		$207 70
EXPENDED		
For caring for graves	$191 50	
Hardware, etc.	2 20	
Loam	14 00	
Total		207 70

EDUCATION

SCHOOL COMMITTEE EXPENSES

Re-appropriation, 1914-15 balance	$5,431 25
Appropriation, 1915-16	692,932 78
Revenue, 1915-16	11,189 26
Total	$709,553 29
Amount carried forward	$709,553 29

Education—Continued

SCHOOL COMMITTEE EXPENSES—Continued.

Amount brought forward			$709,553 29
EXPENDED			
For administrative salaries:			
Superintendent	$5,000 00		
Assistant Superintendent	2,250 00		
Primary Supervisor	1,750 50		
		$9,000 50	
Other general salaries:			
Agent	$1,800 00		
Office clerks	4,148 33		
Porter	804 00		
Attendance officers	6,325 00		
		13,077 33	
Other General Expenses:			
Advertising	$80 20		
Automobile (new)	2,500 00		
Automobile license, etc	47 00		
Automobile storage	62 50		
Automobile supplies and repairs	1,497 05		
Car tickets	450 00		
Carriage and automobile hire	276 16		
Census	390 25		
Correction of examination papers	9 00		
Directory	4 50		
Expenses of committee	140 48		
Printing, stationery, etc	2,134 00		
Services of accountant	96 25		
Spring water	13 71		
Telephone service	846 60		
		8,547 70	
Teachers' salaries:			
High and Latin schools	$88,142 10		
Rindge Technical	41,113 95		
Wellington Teachers' Training school	23,581 04		
Grammar schools	187,696 19		
Primary schools	121,630 22		
Manual Training in grades	4,170 55		
Fresh Air school	1,153 34		
Drawing instructor	1,008 00		
Music instructor	948 00		
Kindergarten teachers	25,811 44		
Sewing teachers	4,685 02		
Instructor in cooking	705 75		
Substitutes:			
High schools	$3,813 50		
Rindge Technical school	494 50		
Grammar schools	2,635 19		
Primary schools	1,893 37		
Kindergarten schools	85 00		
	8,921 56		
Amounts carried forward	$509,567 16	$30,625 53	$709,553 29

Education—Continued

SCHOOL COMMITTEE EXPENSES—Continued.

Amounts brought forward	$509,567 16	$30,625 53	$709,553 29
Supervisor in drawing	2,160 00		
Supervisor in music	2,160 00		
Evening schools	14,284 00		
Vacation schools	568 50		
Trade school for girls	7,337 26		
Special teacher in writing	25 00		
Pension for school agent	1,426 00		
Athletic coach	250 00		
		537,777 92	
Text books and supplies:			
Apparatus and supplies	$11,487 09		
Books, maps and charts	14,057 20		
Binding	204 90		
Piano tuning	62 67		
Postage and stamped envelopes	145 00		
Printing, stationery and supplies	5,839 26		
Soap	25 92		
Motor service at Rindge School	119 60		
		31,941 64	
Tuition:			
Industrial schools	$70 43		
Transportation of pupils	396 00		
Support of truants	225 14		
		691 57	
Janitor service:			
Janitors and firemen, day schools	$49,378 12		
Janitors and firemen, evening schools	2,007 25		
Janitors, entertainments and rallies	224 30		
Janitors at playgrounds	100 00		
Janitors at vacation schools	88 00		
Janitors, day school, pensioned	1,748 00		
Matron	624 00		
Laundress	410 00		
		54,579 67	
Fuel and light:			
Coal and wood	$17,364 70		
Electric lighting	2,113 23		
Gas lighting	739 10		
		20,217 03	
Maintenance of buildings and grounds:			
Janitors' supplies:			
Brooms, brushes, etc	$486 55		
Ash cans	206 40		
Disinfectant	75 09		
Oil, waste, etc	49 68		
Paper towels, etc	102 90		
Tools and miscellaneous supplies	517 20		
		1,437 82	
Amounts carried forward		$677,271 18	$709,553 29

Education—Continued

SCHOOL COMMITTEE EXPENSES—Continued.

Amounts brought forward		$677,271 18	$709,553 29
Repairs to buildings:			
Blackboard repairs	$173 72		
Carpentry and lumber	1,241 92		
Clock repairs	610 09		
Drain repairs	42 50		
Extra cleaning, etc	49 75		
Heating and ventilating apparatus and repairs	2,792 25		
Lighting apparatus, gongs and electric work	785 54		
Locks, keys, etc	111 01		
Mason work, plastering, etc	2,239 89		
Miscellaneous supplies for repairs	76 43		
Painting and glazing	3,467 19		
Plumbing	4,282 57		
Repairs to lockers	298 90		
Repairs to machinery	20 28		
Repairs to desks and chairs	139 07		
Roof repairs and removing snow	2,009 08		
Services of architect and inspector	445 66		
		18,785 85	
Care of grounds:			
Carpenters	$1,144 00		
Gardeners	780 00		
Cleaning trees	29 68		
Fence repairs	651 18		
Labor, planting	5 00		
		2,609 86	
Flags and flagstaffs:			
Flags and halyards	$134 09		
Raising and housing topmast	21 35		
Painting topmast	35 28		
		190 72	
Furniture and furnishings:			
Blackboards	$8 60		
Chairs, desks, etc	486 33		
Cots	133 50		
Gas range	54 35		
Shades, awnings, etc	792 15		
		1,474 93	
Other school expenses:			
Boiler insurance	$634 57		
Express and teaming	1,207 34		
Operating lantern slides	2 30		
Services of physician	95 00		
Subscription	5 00		
Sundry expenses	86 88		
Amounts carried forward	$2,031 09	$700,332 54	$709,553 29

Education—Continued

SCHOOL COMMITTEE EXPENSES—Concluded.

Amounts brought forward		$2,031 09	$700,332 54	$709,553 29
Graduation expenses:				
Auto hire and special cars	$173 40			
Tickets and programs	85 26			
Sanders Theatre	11 59			
Diplomas	330 89			
Ribbons	79 33			
Expenses at Armory	109 46			
Music	130 60			
		920 53		
			2,951 62	
Rent of Agassiz House during erection of Agassiz School			256 03	
Total				$703,540 99
Balance of appropriation, to be re-appropriated				$6,012 30

HAGGERTY SCHOOL

By re-appropriation, 1914-15	$35,309 53
Transfer from Fire Escape, Merrill School	130 20
Transfer from Election Expenses, Polling Places	83 27
	$35,523 00

EXPENDED

For advertising	$8 08	
Architects' fees	1,126 71	
Building contract	22,692 00	
Electrical contract	2,214 50	
Electrical supplies	31 05	
Fuel	25 32	
Furniture, desks, chair, etc	1,972 34	
Gas range	31 50	
Granolithic work	465 24	
Heating and ventilating contract	3,860 51	
Plumbing contract	3,005 75	
Services of fireman	15 00	
Services of janitor	75 00	
Total		35,523 00

AGASSIZ SCHOOL

By re-appropriation, 1914-1915	$59,970 00
By appropriation, loan	10,000 00
	$69,970 00
Amount carried forward	$69,970 00

Education—Concluded

AGASSIZ SCHOOL—Concluded.

Amount brought forward		$69,970 00
EXPENDED		
For advertising	$10 29	
Architects' fees	1,766 73	
Building contract	21,929 25	
Carpentry	27 50	
Electrical work	384 25	
Heating and ventilation, contract	5,859 60	
Plumbing contract	1,200 00	
Services of inspector	92 00	
Total		31,269 62
Balance of appropriation		$38,700 38

LIBRARIES

CENTRAL LIBRARIES

Salaries

Appropriation		$13,905 25
EXPENDED		
For salaries of:		
Librarian	$2,500 00	
Head assistant	1,200 00	
Other regular assistants	6,965 90	
Sunday assistants, substitutes and pages	1,383 95	
Janitors and assistants	1,933 42	
Total		13,983 27
Excess of expenditure over appropriation		$78 02
Transferred from Reserve Fund		78 02

General Expenses

Appropriation			$9,965 00
EXPENDED			
For books, periodicals, etc		$4,635 38	
Binding		899 88	
Fuel		812 93	
Lighting		488 78	
Care and repair of buildings:			
Furniture and furnishings	$341 80		
Inspection of boilers	10 00		
Janitors' supplies	62 85		
		414 65	
Amounts carried forward		$7,251 62	$9,965 00

Libraries—Continued

CENTRAL LIBRARY, GENERAL EXPENSES—Concluded.

Amounts brought forward		$7,251 62	$9,965 00
Repairs:			
Carpentry	$81 83		
Electrical work and supplies	59 09		
Heating and ventilating repairs	33 47		
Painting	241 08		
Plumbing	140 41		
Repairing steps	19 20		
Roof repairs	49 47		
Sundries for repairs	52 83		
		677 41	
Other expenses:			
Car tickets	$20 00		
Delivery to local stations	199 50		
Disinfectant and medical supplies	17 83		
Expressage	23 23		
Ice	12 61		
Laundry work	20 85		
Local stations	36 00		
Printing, stationery, etc	911 68		
Rent of safe deposit vault	5 00		
Services of physician (Compensation Act)	36 00		
Spring water	11 74		
Telephone service	113 90		
Typewriter (new)	88 20		
Typewriter supplies	10 21		
		1,506 75	
Total			9,435 78
Surplus of appropriation transferred to Reserve Fund			$529 22

CAMBRIDGEPORT BRANCH

Salaries

Appropriation			$1,443 00
EXPENDED			
For salaries of:			
Custodian		$770 75	
Assistants		502 47	
Sunday assistants, pages, etc		228 12	
Total			1,501 34
Excess of expenditure over appropriation			$58 34
Transferred from Reserve Fund			58 34

Libraries—Continued

CAMBRIDGEPORT BRANCH—Concluded.

General Expenses

Appropriation			$2,539 00
EXPENDED			
For binding		$215 05	
Books and periodicals		1,302 99	
Catalogue cards		75 00	
Care and repair of buildings:			
Carpentry	$24 50		
Furniture and furnishings	32 55		
		57 05	
Insurance		18 00	
Lighting		98 01	
Rent of building		660 00	
Stationery, printing, etc		30 83	
Telephone service		23 30	
Total			2,480 23
Surplus of appropriation transferred to Reserve Fund			$58 77

EAST CAMBRIDGE BRANCH

Salaries

Appropriation			$1,559 00
EXPENDED			
For salaries of:			
Custodian		$654 34	
Assistant		448 00	
Pages and substitutes		138 20	
Janitor		324 00	
Total			1,564 54
Excess of expenditure over appropriation			$5 54
Transferred from Reserve Fund			5 54

General Expenses

Appropriation			$2,104 00
EXPENDED			
For books and periodicals		$1,636 60	
Binding		130 37	
Catalogue cards		75 00	
Furniture and furnishings		59 40	
Lighting		140 03	
Amounts carried forward		$2,041 40	$2,104 00

Libraries—Continued

EAST CAMBRIDGE BRANCH, GENERAL EXPENSES—Concluded.

Amounts brought forward	$2,041 40	$2,104 00
Miscellaneous supplies	2 13	
Stationery, printing, etc	31 45	
Telephone service	23 33	
Total		2,098 31
Surplus of appropriation transferred to Reserve Fund		5 69

NORTH CAMBRIDGE BRANCH

Salaries

Appropriation		$2,381 66
EXPENDED		
For salaries of:		
Custodian	$849 97	
Assistants	1,092 75	
Pages and substitutes	121 20	
Janitor	324 00	
Total		2,387 92
Excess of expenditure over appropriation		$6 26
Transferred from Reserve Fund		6 26

General Expenses

Appropriation		$2,134 00
EXPENDED		
For books and periodicals	$1,493 17	
Binding	249 87	
Catalogue cards	75 00	
Carpentry	3 97	
Express	1 79	
Furniture and furnishings	26 42	
Supplies for repairs	24 70	
Ice	7 64	
Lighting	137 16	
Stationery, printing, etc	45 44	
Typewriter (new)	39 20	
Telephone service	21 78	
Typewriter supplies	1 50	
Total		2,127 64
Surplus of appropriation transferred to Reserve Fund		$6 36

Libraries—Concluded

CAMBRIDGE FIELD BRANCH

Appropriation			$2,000 00
EXPENDED			
For salaries of:			
Custodian	$235 69		
Pages and assistants	246 06		
Janitor	30 00		
		511 75	
For books, periodicals, etc.		251 76	
Book plates		24 70	
Binding		22 10	
Catalogue cards		25 00	
Care and repairs of building:			
Carpentry	$231 28		
Electrical supplies and repairs	162 58		
Furniture and furnishings	549 33		
Plumbing	31 56		
		974 75	
Insurance		15 00	
Lighting		45 50	
Stationery, printing, etc.		33 93	
Total			1,904 49
Surplus of appropriation transferred to Reserve Fund			$95 51

MOUNT AUBURN BRANCH

Appropriation			$1,000 00
EXPENDED			
For salaries of:			
Custodian	$160 85		
Janitor	90 66		
		$251 51	
For books, periodicals, etc.		209 00	
Book plates		24 70	
Binding		15 78	
Furniture and furnishings		459 13	
Insurance		10 00	
Stationery, printing, etc.		29 32	
Total			999 44
urplus of appropriation transferred to Reserve Fund			$ 56

RECREATION

PARK DEPARTMENT MAINTENANCE

Salaries

Appropriation	$3,040 00

EXPENDED

For salaries of:		
General Superintendent of Parks	$2,000 00	
Clerk	1,016 66	
Temporary clerk	23 34	
Total		3,040 00

General Expenses

Appropriation	$31,295 00
Transferred to Street Department, for care of horses	432 00
	$30,863 00

EXPENDED

For labor, as per payroll		$15,626 24	
Salaries of superintendents and attendants at fields:			
Superintendent at Cambridge Field	$1,162 33		
Matrons	1,368 00		
Fireman and janitors	792 50		
		3,322 83	
Attendants at Bath House, Captains Island:			
Life guards	$954 50		
Matrons	212 00		
		1,166 50	
Attendants at floating baths:			
Life guards	$326 87		
Matrons	18 00		
		344 87	
General expenses:			
Asphalt binder		328 50	
Athletic supplies		19 19	
Automobile supplies and repairs:			
Automobile hire	$43 36		
Automobile storage	57 50		
Automobile supplies and repairs	208 55		
		309 41	
Car tickets		12 08	
Directory		4 50	
Expenses of committee		62 70	
Express		2 30	
Fuel and light:			
Fuel	$259 93		
Lighting	5,805 14		
		6,065 07	
Amounts carried forward		$27,264 19	$30,863 00

Recreation—Continued

PARK DEPARTMENT MAINTENANCE, GENERAL EXPENSES—Concluded.

Amounts brought forward		$27,264 19	$30,863 00
Gravel, sand, loam, etc.		205 49	
Horseshoeing and blacksmithing		66 84	
Housing and repairs on topmast		103 06	
Laundry		304 28	
Oil for laying dust		443 43	
Oil, grease, etc.		29 15	
Plants and seeds		32 00	
Repairs:			
Carpentry and lumber	$538 73		
Electrical repairs	6 20		
Fence repairs	272 52		
Granolithic walk repairs	212 60		
Heating and ventilating	177 09		
Mason work	204 00		
Painting	30 00		
Plumbing	99 13		
Stone and test on same	44 83		
Roof repairs	11 05		
		1,596 15	
Services of physician (Compensation Act)		18 00	
Signs		10 50	
Spring water		11 27	
Steam roller supplies		70 52	
Subscription		5 00	
Stationery, printing and office supplies		292 77	
Tarvia		53 40	
Telephone service		181 70	
Towing bath house		70 00	
Typewriter		65 00	
Teaming		182 25	
Wagon repairs		29 21	
Supplies:			
Bathing suits, etc.	$79 94		
Soap, towels, etc.	52 61		
Tools and miscellaneous supplies	283 98		
		416 53	
Total			31,450 74
Excess of expenditure over appropriation			$587 74
Transferred from Reserve Fund			587 74

PARK DEPARTMENT—CONSTRUCTION AND LANDS

Appropriation from 1915-16	$10,331 53
Appropriation	25,000 00
Appropriation	5,000 00
	$40,331 53
Amount carried forward	$40,331 53

Recreation—Continued

PARK DEPARTMENT CONSTRUCTION AND LANDS—Concluded.

Amount brought forward			$40,331 53

EXPENDED

For labor, as per payroll		$15,331 74	
Compensation		319 03	
Advertising		23 52	
Bricks, cement, etc.		64 79	
Fuel		92 62	
Lawn seed		33 80	
Loam, gravel, etc.		3,099 54	
Lumber		19 80	
Oil		7 00	
Rebate on granolithic walks		4 44	
Repairs on sea wall		62 50	
Services of engineer		100 00	
Services of physician (Compensation Act)		41 50	
Stone:			
Crushed stone	$10,206 19		
Edgestone	260 47		
		10,466 66	
Tar binder		8,354 02	
Tarvia		737 88	
Teaming, as per payroll		1,236 50	
Tools and miscellaneous supplies		110 85	
Trees		211 70	
Total			40,317 89
Balance of appropriation			$13 64

SHOWER BATHS, THORNDIKE SCHOOL

Appropriation			$1,000 00

EXPENDED

For salaries of:			
Janitor		$410 00	
Assistant janitor		238 34	
Matron		119 17	
Laundress		149 50	
Supplies, soap, etc.		61 57	
Total			978 58
Surplus of appropriation transferred to Reserve Fund			$21 42

Recreation—Continued

PLAYGROUND COMMISSION

Salaries

Appropriation		$3,360 00
EXPENDED		
For teachers' salaries	$3,240 25	
Total		3,240 25
Surplus of appropriation transferred to Reserve Fund		$119 75

PLAYGROUND—GENERAL EXPENSES

Appropriation			$500 00
EXPENDED			
For labor		$11 75	
Athletic goods		212 82	
Car tickets		153 00	
Exhibition expenses:			
Chairs	$1 50		
Erecting band stand	25 00		
Music	66 00		
Prizes	40 00		
Programs, tickets, etc.	15 68		
		148 18	
Materials, raffia, etc.		62 81	
Sand		13 78	
Miscellaneous supplies		24 47	
Water		1 50	
Total			628 31
Excess of expenditure over appropriation			$128 31
Transferred from Reserve Fund			128 31

CONSTRUCTION AND EQUIPMENT OF PLAYGROUNDS

Appropriation			$6,000 00
EXPENDED			
For labor, as per payroll		$1,679 94	
Athletic apparatus		852 40	
Iron fences		2,640 50	
Loam and filling		162 96	
Services of landscape architect		74 30	
Tables for sand gardens		406 00	
Tools and miscellaneous supplies		87 49	
Water for flooding fields		48 90	
Teaming		51 00	
Total			6,003 49
Excess of expenditure over appropriation			$3 49
Transferred from Reserve Fund			3 49

Recreation—Continued

LAND FOR PLAYGROUNDS

Re-appropriation from 1914-15		$8,705 90
EXPENDED		
For land, Peabody School Playground	$3,900 00	
Total		3,900 00
Balance of appropriation		$4,805 90

OILING PLAYGROUNDS

Appropriation		$500 00
EXPENDED		
For oil	$316 80	
Total		316 80
Surplus of appropriation transferred to Reserve Fund		$183 20

CELEBRATION OF INDEPENDENCE DAY

Appropriation		$1,000 00
Revenue reappropriated		300 00
		$1,300 00
EXPENDED		
For balls	$28 75	
Fireworks	300 00	
Lumber	23 38	
Music	500 00	
Prizes	399 41	
Services of Umpires	80 00	
Use of chairs	12 00	
Total		$1,343 54
Excess of expenditures over appropriation		$43 54
Transfer from Reserve Fund		43 54

Recreation—Concluded

CELEBRATION OF LABOR DAY

Appropriation		$300 00
EXPENDED		
For badges	$3 00	
Balls	9 50	
Express	3 00	
Moving pictures	25 00	
Music	111 00	
Prizes	125 00	
Services of Umpires	20 00	
Total		296 50
Surplus of appropriation transferred to Reserve Fund		$3 50

CELEBRATION OF MEMORIAL DAY

Appropriation		$1,200 00
EXPENDED		
For observance of Memorial Day by the Grand Army of the Republic and Spanish War Veterans	$1,200 00	
Total		$1,200 00

CEMETERIES

CAMBRIDGE CEMETERY

Salaries and Labor

Appropriation		$18,000 00
EXPENDED		
For salaries of:		
Superintendent	$2,000 00	
Clerk	1,100 00	
Clerk of Board	112 50	
Labor, sundry persons, as per payroll	14,785 02	
Total		17,997 52
Surplus of appropriation transferred to Reserve Fund		$2 48

Cemeteries—Continued

General Expenses

Appropriation			$2,500 00
	EXPENDED		
For commissioners' and office expenses:			
Binding	$4 00		
Bonds for clerks	18 00		
Car tickets	35 00		
Directory	4 50		
Fuel	106 08		
Gas	10 56		
Ice	7 20		
Refreshments for committee	27 60		
Services of notary	16 00		
Stationery, printing, etc	156 60		
Subscription	2 00		
Telephone service	69 03		
		456 57	
Cement	$163 47		
Decorating monument	20 00		
Evergreen and floral wreaths	33 00		
Harness and repairs	45 29		
Hay, grain, etc	135 74		
Horseshoeing	51 60		
Hose	56 90		
Lumber and stakes	76 42		
Moth extermination	60 00		
New pipe and fittings (Water Dept.)	33 87		
Seeds, plants, etc	61 69		
Sods	200 01		
Teaming	72 00		
Tools and miscellaneous supplies	346 32		
Water	9 00		
Vaults and covers	53 55		
		1,418 86	
Care and repair of house:			
Chimney repairs	$4 80		
Electrical supplies and repairs	87 60		
Installing furnace	150 00		
Paper and hanging	96 66		
Plumbing	215 74		
Stove	33 00		
Roof repairs	35 92		
		623 72	
Total			$2,499 15
Surplus of appropriation transferred to Reserve Fund			.85

HORSES

Appropriation	$500 00
Amount carried forward	$500 00

Cemeteries Concluded

HORSES—Concluded.

Amount brought forward			$500 00
EXPENDED			
For hay, grain, etc		$14 09	
Harness and repairs		78 95	
Horse (new)		350 00	
Horseshoeing		5 50	
Lumber		12 22	
Wagon repairs		39 16	
Total			499 92
Surplus of appropriation transferred to Reserve Fund			$.08

UNCLASSIFIED

DAMAGES TO PERSONS AND PROPERTY

Appropriation			$4,000 00
EXPENDED			
Execution of court:			
For injuries from defect in streets:			
Samuel O. Reinstein, attorney for William L. D'Arcy	$150 00		
Thomas A. Glennon, attorney for Annie H. Nixon	125 00		
William Burns, attorney for Melissa Proctor	200 00		
Edward H. Seavey, attorney for Georgianna Schuyler	300 00		
		775 00	
Damages to clothing:			
Allan Roach	$25 00		
Fred'k. W. Franzman	40 00		
Joseph H. Ricker	6 00		
Thomas R. Mains	7 00		
Lena J. Gay	5 00		
		83 00	
Damages to property:			
Estate of John McDonald	$50 00		
Herbert M. Bridey, attorney for John F. Fair	10 00		
William J. Corcoran	445 45		
Jose J. Godinho	2 00		
Pasquale Sateriale	6 00		
Manuel Lawrence	1 30		
Mrs. Marie J. Hillery	5 00		
Alonzo K. Paul	31 50		
Edward Sullivan	3 00		
A. E. Mace	20 00		
Amounts carried forward	$574 25	$858 00	$4,000 00

Unclassified—Continued

DAMAGES TO PERSONS AND PROPERTY—Concluded.

Amounts brought forward	$574 25	$858 00	$4,000 00
Mary E. Hesion	2 24		
P. J. Flemming	5 65		
Harry S. Johnson	20 00		
		602 14	
Injuries:			
From defective sidewalk:			
Ethel Caples	$300 00		
Elizabeth G. Bernier	200 00		
Thomas F. Sullivan, attorney for John C. O'Brien	300 00		
Wm. J. Sander, attorney for Mary G. Sassard	100 00		
John B. Welch, attorney for Mary E. Dwyer	125 00		
Edward A. Counihan, Jr., attorney for Francis DiChiappire	150 00		
John F. Brennan, attorney for Helen L. McNamara	75 00		
		1 250 00	
From falling trees:			
Mrs. Elizabeth Murnaghan	$5 00		
Richard Wright	11 80		
		16 80	
Total			$2,726 94
Surplus of appropriation transferred to Reserve Fund			$1,273 06

TEACHERS' PENSIONS

Appropriation			$10,150 92
EXPENDED			
For teachers' pensions		$10,004 16	
Total			10,004 16
Surplus of appropriation transferred to Reserve Fund			$146 76

MEMORIAL FLAG STAFF

Appropriation from 1914-15			$190 49
EXPENDED			
For labor as per payroll		$18 33	
Granolithic walks		153 84	
Total			172 17
Balance of appropriation			$18 32

Unclassified—Continued

INDUSTRIAL COMMISSION

Appropriation		$300 00
EXPENDED		
For photographs	$124 00	
Total		124 00
Surplus of appropriation transferred to Reserve Fund		$176 00

PLANNING BOARD

Appropriation		$1,000 00
EXPENDED		
For services of consultant	$300 00	
Drafting	133 00	
Stationery, printing, etc.	56 52	
Telephone service	3 10	
Total		492 62
Surplus of appropriation transferred to Reserve Fund		$507 38

FREE EMPLOYMENT BUREAU

Salaries

Appropriation		$900 00

Salaries

For services as agent	$900 00	
Total		$900 00

General Expenses

Appropriation		$200 00
EXPENDED		
For car tickets	$10 00	
Moving desk	1 00	
Services of stenographer	23 37	
Stationery, printing and office supplies	79 75	
Telephone service	85 06	
Total		199 18
Surplus of appropriation transferred to Reserve Fund		$ 82

Unclassified—Concluded

INDEMNIFICATION OF POLICE OFFICERS

Appropriation from Reserve Fund		$701 91
EXPENDED		
Money returned to Capt. Jas. Murray for costs of civil suit and false arrest	$150 00	
Money returned to Sergeant Leahy for costs of civil suit and false arrest	551 91	
Total		$701 91

NEW SYSTEM OF ACCOUNTS

Appropriation transferred from Reserve Fund		$2,301 64
EXPENDED		
For stationery, printing and supplies for all departments	$2,301 64	....
Total		2,301 64

PUBLIC SERVICE ENTERPRISES

WATER WORKS, CONSTRUCTION GENERAL

Appropriation brought from 1914-15		25,238 49
From Revenue, Const. Gen. and Detector Meters, 1914-15		4,751 36
		$29,989 85
From Revenue, 1915-16		2,536 89
		$32,526 74
EXPENDED		
For labor, as per payroll	$13,755 03	
Advertising	16 66	
Cement	8 04	
Expressage and freight	47 83	
Expenses in connection with filtration plant	8,008 90	
Gate valves, boxes, etc	278 44	
Hydrants	915 00	
Lead	846 98	
Lumber	106 42	
Amounts carried forward	$23,983 30	$32,526 74

Public Service Enterprises—Continued

WATER WORKS, CONSTRUCTION GENERAL—Concluded.

Amounts brought forward	$23,983 30	$32,526 74
Miscellaneous supplies	78 52	
Pipes and fittings	6,003 54	
Repairing streets	355 55	
Services investigating Payson Park Reservoir	595 00	
Services of flagman	12 53	
Unloading pipe on side track	24 00	
Total		31,052 44
Balance of appropriation		1,474 30

CONSTRUCTION HOBBS' BROOK CONDUIT

Appropriation			$9,121 47
EXPENDED			
Taking of land:			
M. A. Sullivan, Atty. for H. T. Harriman	$1,800 00		
D. J. Mahoney, Atty. for Vincent Dugan	200 00		
George L. Mabury, Atty. for L. L. Wyman, Exec. by F. W. Fodrick	3,500 00		
		$5,500 00	
Services of expert (Wyman case)		100 00	
Certifying records		4 87	
Printing		6 59	
Expenses in Farquhar case:			
Auto hire	$16 00		
Services of stenographer	35 18	51 18	
Total			5,662 64
Balance of appropriation			$3,458 83

DETECTOR METERS

Reappropriation, 1915-16		$1,920 81
Reappropriation from Revenue, 1914-15		8,079 19
		$10,000 00
From Revenue, 1915-16		3,833 40
		$13,833 40
Amount carried forward		$13,833 40

Public Service Enterprises—Continued

DETECTOR METERS—Concluded.

Amount carried forward	$13,833 40	
EXPENDED		
For labor as per payroll	$160 30	
Building meter boxes	315 15	
Frames and covers	58 50	
Lead	19 80	
Meters	1,830 00	
Total		$2,383 75
Balance of appropriation		$11,449 65

WATER WORKS MAINTENANCE, SALARIES OF SUPERINTENDENTS, REGISTRAR AND CLERKS

Appropriation		$22,819 00
EXPENDED		
For salaries of:		
Superintendent	$2,500 00	
Registrar and Clerk of Water Board	2,500 00	
Inspectors	11,812 36	
Clerks	5,978 02	
Total		22,790 38
Transferred to Water Summary		$38 62

MAINTENANCE, GENERAL EXPENSES

Appropriation		$80,000 00
Transferred to Treasury Dept		500 00
		$79,500 00
Appropriation for Fountains		500 00
		$80,000 00
EXPENDED		
For labor as per payroll	$45,984 14	
Engineering as per payroll	322 00	
Pension (Supt. Brooks)	1,100 00	
Teaming	59 65	
Advertising	19 11	
Automobiles (new)	957 96	
Automobile registration, etc	53 00	
Automobile supplies and repairs	2,165 73	
Blacksmith	264 28	
Building two piers	40 00	
Car tickets	502 92	
Amounts carried forward	$51,468 79	$80,000 00

Public Service Enterprises—Continued

MAINTENANCE, GENERAL EXPENSES—Continued.

Amounts brought forward		$51,468 79	$80,000 00
Carriage and auto hire		170 00	
Carriage and wagon repairs		315 22	
Cement and clay goods		75 77	
Cases against the City:			
Thomas Sullivan, atty. for Hannah Carroll		100 00	
Damages		666 45	
Disinfectant, etc		2 60	
Electrical supplies and repairs		125 39	
Entertainment of Committee and inspections by Water Board		804 65	
Expressage and freight		121 18	
Expenses to Convention		47 75	
Fountain repairs		200 10	
Fuel		179 57	
Gate boxes		374 23	
Gate valves		362 44	
Hardware, tools and miscellaneous supplies		1,200 25	
Harness and repairs		121 17	
Hay, grain and straw		679 91	
Horse shoeing and clipping		329 12	
Hose and rubber goods		183 36	
Hydrants, posts and fittings		196 15	
Ice		4 90	
Lanterns and lights		43 33	
Lighting offices, stable and shop		32 47	
Lumber		186 17	
Manholes		93 69	
Medical attendance (Compensation Act)		39 00	
Meters, repairs, etc		4,292 31	
Motor service at yard		27 80	
Oil, waste, packing		155 76	
Pipes and fittings		7,372 86	
Pumping outfit for gasolene		329 00	
Pump repairs, etc.		50 00	
Repairs:			
Building repairs	$104 20		
Catch basin repairs	20 31		
Tapping machine	13 01		
Pavements	501 91		
		639 43	
Rubber boots and clothing		31 36	
Sand and stone		13 25	
Service boxes		250 00	
Services of attorney		25 00	
Services of engineer		88 00	
Sinking Fund expenses:			
Services of Treasurer	200 00		
Use of vault	80 00		
		280 00	
Sheet metal		31 75	
Railing		60 00	
Taxes and moth assessments		2,109 77	
mounts carried forward		$73,489 95	$80,000 00

Public Service Enterprises—Continued

MAINTENANCE, GENERAL EXPENSES—Concluded.

Amounts brought forward		$73,489 95	$80,000 00
Office expenses:			
Addressograph supplies	$20 57		
Directories	10 50		
Furniture	42 93		
Stationery, printing and office supplies	2,005 06		
Telephone service	266 95		
Typewriter repairs and supplies	10 68		
		2,356 69	
Total			$76,236 64
Surplus of appropriation transferred to Water Summary			$3,763 36

FRESH POND RESERVOIR

Appropriation			$12,165 00
EXPENDED			
For labor, as per payroll		$10,558 17	
Advertising		30 86	
Auctioning grass		20 00	
Arsenate of lead		28 90	
Bicycle repairs		15 58	
Boat repairs		2 06	
Electrical supplies		3 37	
Harness repairs		4 40	
Hay, grain and straw		73 42	
Horseshoeing, etc.		40 61	
Lumber		190 02	
Lunches		1 37	
Printing		11 76	
Teaming		87 00	
Tools and miscellaneous supplies		268 91	
Total			$11,336 43
Surplus of appropriation transferred to Water Summary			828 57

HOBB'S BROOK RESERVOIR

Appropriation			$2,574 46
EXPENDED			
For salary of keeper		$784 29	
Labor, as per payroll		654 50	
Amounts carried forward		$1,438 79	$2,574 46

Public Service Enterprises—Continued

HOBBS BROOK RESERVOIR—Concluded.

Amounts brought forward	$1,438 79	$2,574 46
Advertising	5 14	
Auctioneer's services	25 00	
Building repairs	46 70	
Hay, grain and straw	75 65	
Harness repairs	19 89	
Horseshoeing	66 85	
Inspector, medical	240 00	
Labor and use of haying machine	34 13	
Lumber	98 77	
Moth extermination	49 42	
Telephone service	31 12	
Tools and miscellaneous supplies	27 83	
Water supply, keeper's house	89 46	
Total		$2,248 75
Surplus of appropriation transferred to Water Summary		$325 71

PAYSON PARK RESERVOIR

Appropriation		$1,365 00
EXPENDED		
For salary of keeper	$903 84	
Labor, sundry persons	239 36	
Fuel	23 27	
Lighting	8 40	
Repairs	6 00	
Tools and miscellaneous supplies	25 30	
Total		1,206 17
Surplus of appropriation transferred to Water Summary		$158 83

STONY BROOK RESERVOIR

Appropriation		$5,629 00
EXPENDED		
For salary of keeper	$915 00	
Labor, sundry persons	848 88	
Car tickets	15 30	
Cesspool and vault cleaning	1,273 63	
Fuel	21 00	
Haying	9 50	
Hay, grain and straw	75 88	
Amounts carried forward	$3,159 19	$5,629 00

Public Service Enterprises—Continued

Stony Brook Reservoir—Concluded

Amounts brought forward	$3,159 19	$5,629 00
Horseshoeing	49 44	
Hose	35 85	
Medical inspector	240 00	
Permit to enter sewage	75 00	
Plumbing	11 61	
Teaming and measuring wood	39 23	
Telephone service	64 21	
Tools and miscellaneous supplies	63 28	
Water rates	19 00	
Total		3,756 81
Surplus of appropriation transferred to Water Summary		$1,872 19

PUMPING SALARIES AND LABOR

Appropriation		$13,650 00
EXPENDED		
For salary of engineer	$1,800 00	
Assistant engineer	1,200 00	
Labor, as per payroll	10,828 97	
Total		$13,828 97
Excess of expenditure over appropriation		$178 97
Excess of expenditure from Water Summary		$178 97

WATER WORKS, PUMPING, GENERAL EXPENSES

Appropriation		$22,185 05
EXPENDED		
For advertising	$27 92	
Analysis of coal	15 15	
Blacksmithing	138 62	
Building coal pocket	3,903 10	
Car tickets	17 00	
Disinfectant	3 67	
Electric work and supplies	167 21	
Engines, boilers, pumps, supplies and repairs	3,927 83	
Express and freight	40 32	
Fuel	13,187 96	
Inspection of boilers	20 00	
Ice	25 95	
Amounts carried forward	$21,474 73	$22,185 05

Public Service Enterprises—Continued

WATER WORKS, PUMPING, GENERAL EXPENSES—Concluded.

Amounts brought forward		$21,474 73	$22,185 05
Installing side track and bunter		972 46	
Lumber		83 65	
Oil, waste and packing		916 41	
Rent of towels		20 50	
Repairs to buildings		210 84	
Rubber clothing		11 76	
Scales	$804 00		
Foundation, pit, etc.	523 86		
		1,327 86	
Services of physician (Compensation Act		4 00	
Stationery, etc.		3 70	
Telephone service		83 13	
Tools and miscellaneous supplies		113 75	
Expenses of hearing (Denehy case)			
Auto hire	$11 76		
Lunches	14 70		
Services of stenographer	208 15		
		234 61	
Total			$25,457 40
Excess of expenditure transferred from Water Summary			3,272 35

ICE FOR FOUNTAINS

Appropriation		$1,400 00
EXPENDED		
For ice	$719 83	
Total		719 83
Surplus of appropriation transferred to Water Summary		$680 17

WATER SERIAL LOANS

Appropriation		$19,523 50
Reappropriation from premiums, 1914-15		976 50
		$20,500 00
EXPENDED		
To redeem matured Water Bonds	$20,500 00	
Total		$20,500 00

Public Service Enterprises—Concluded

SERVICES OF CITY TREASURER AND CITY SOLICITOR

Appropriation		$2,500 00
Reappropriated from revenue		500 00
		$3,000 00
EXPENDED		
For services of City Treasurer in collection of Water rates, etc.	$2,000 00	
Services of City Solicitor	1,000 00	
Total		$3,000 00

WATER WORKS, ABATEMENTS AND REFUNDS

Appropriation		$5,500 00
Reappropriated from Revenue Summary		880 43
		$6,380 43
EXPENDED		
For abatements, as per registrar's certificates	$4,669 26	
Refunds, as per registrar's certificates	1,711 17	
Total		6,380 43

INTEREST ON WATER LOAN

Appropriation		$103,395 75
Reappropriation, 1914-15		4,867 25
		$108,262 50
EXPENDED		
For interest on Water Loan	$103,197 75	
Total		103,197 75
Surplus of appropriation transferred to Water Summary		$5,064 75

INTEREST

Appropriation			$370,317 63
EXPENDED			
For interest on loans in anticipation of taxes		$15,398 66	
Sanders Temperance Fund	$550 00		
Daniel White Charity	300 00		
Dowse Fund	600 00		
		1,450 00	
Amounts carried forward		$16,848 66	$370,317 63

Interest—Concluded

Amounts brought forward	$16,848 66	$370,317 63
Interest due Commissioners of Sinking Fund	660 00	
Building loan	12,648 75	
City loan, Acts of 1908	18,080 00	
Cambridge Bridge loans	61,386 00	
Harvard Bridge loans	14,960 00	
Commercial Avenue Bridge loans	2,000 00	
Cambridge Bridge special	507 50	
Hospital loan	5,965 00	
Metropolitan Park assessment	1,575 00	
Public Library loan	945 00	
Schoolhouse loan	49,903 85	
Sewer loan	43,560 00	
Street loan	64,569 25	
Cemetery loan	280 00	
Park loan	60,230 00	
Playgrounds loan	4,930 00	
Charles River Basin assessment	2,700 00	
Municipal loan	4,954 50	
Charles River Basin improvement	2,625 00	
School Teachers' Increase of Salary loan	800 00	
Total		370,128 51
Surplus of appropriation transferred to Reserve Fund		$189 12

SINKING FUNDS

BROOKLINE BRIDGE

Amount of Fund, March 31, 1915	$3,037 23	
Interest, 1915	122 70	
Appropriation for 1915	333 33	
Amount of Fund, March 31, 1916		$3,493 26

CAMBRIDGE BRIDGE

Amount of Fund, March 31, 1915	$225,783 30	
Interest, 1915	9,121 64	
Appropriation for 1915	11,695 42	
Amount of Fund, March 31, 1916		246,600 36

CAMBRIDGE BRIDGE SPECIAL

Amount of Fund, March 31, 1915	$7,262 27	
Interest, 1915	.293 39	
Appropriation for 1915	616 00	
Amount of Fund, March 31, 1916		8,171 66

Sinking Funds—Continued

CHARLES RIVER BASIN

Amount of Fund, March 31, 1915	$16,837 66	
Interest, 1915	680 24	
Appropriation for 1915	5,400 00	
Amount of Fund, March 31, 1916		22,917 90

COMMERCIAL AVENUE BRIDGE

Amount of Fund, March 31, 1915	$6,074 50	
Interest, 1915	245 41	
Appropriation for 1915	666 67	
Amount of Fund, March 31, 1916		6,986 58

HARVARD BRIDGE

Amount of Fund, March 31, 1915	$334,823 59	
Interest, 1915	13,526 87	
Appropriation for 1915	8,800 00	
Amount of Fund, March 31, 1916		357,150 46

CITY OF CAMBRIDGE, ACTS OF 1908

Amount of Fund, March 31, 1915	$237,202 11	
Interest, 1915	9,582 96	
Appropriation for 1915	36,000 00	
Amount of Fund, March 31, 1916		282,785 07

HOSPITAL ACTS OF 1895

Amount of Fund, March 31, 1895	$26,713 61	
Interest, 1915	1,079 23	
Appropriation for 1915	5,625 00	
Amount of Fund, March 31, 1916		33,417 84

METROPOLITAN PARK ASSESSMENT

Amount of Fund, March 31, 1915	$14,806 96	
Interest, 1915	598 20	
Appropriation for 1915	1,012 00	
Amount of Fund, March 31, 1916		16,417 16

Sinking Funds—Continued

PARK

Amount of Fund, March 31, 1915	$552,641 60	
Interest, 1915	22,326 72	
Appropriation for 1915	25,666 66	
Amount of Fund, March 31, 1916		600,634 98

PLAYGROUNDS

Amount of Fund, March 31, 1915	$9,334 18	
Interest, 1915	377 10	
Appropriation for 1915	2,090 00	
Amount of Fund, March 31, 1916		11,801 28

IMPROVED SEWERAGE

Amount of Fund, March 31, 1915	$136,040 08	
Interest, 1915	5,496 01	
Appropriation for 1915	8,778 00	
Amount of Fund, March 31, 1916		150,314 09

SEPARATE SYSTEM OF DRAINAGE

Amount of Fund, March 31, 1915	$40,019 80	
Interest, 1915	1,616 80	
Appropriation for 1915	5,874 00	
Amount of Fund, March 31, 1916		47,510 60

BOSTON ELEVATED SHARE CAMBRIDGE BRIDGE

Amount of Fund, March 31, 1915	$257,500 00	
Earnings each year are deducted from Sinking Fund requirements of Cambridge Bridge Loans		
		257,500 00

GENERAL

Amount of Fund, March 31, 1915	$1,323,097 00	
Interest, 1915	60,552 75	
Appropriation for 1915	155,919 50	
	$1,539,569 25	
Bonds maturing in 1915	120,000 00	
	$1,419,569 25	
Amount of Fund, March 31, 1915		$1,419,569 25

Sinking Funds—Continued

COMMISSIONERS OF SINKING FUNDS

Appropriation		$268,676 58
Transfer to Reserve Fund		200 00
		$268,476 58

RECEIVED

From City Treasury, appropriation from 1915:		
Brookline Bridge	$333 33	
Cambridge Bridge	11,695 42	
Cambridge Bridge Special	616 00	
Charles River Basin	5,400 00	
Commercial Avenue Bridge	666 67	
Harvard Bridge	8,800 00	
City of Cambridge, Acts of 1908	36,000 00	
Hospital	5,625 00	
Metropolitan Park Assessment	1,012 00	
Park	25,666 66	
Playgrounds	2,090 00	
Improved sewerage	8,778 00	
Separate system of sewerage	5,874 00	
General	155,919 50	
		268,476 58
Interest accumulations (net)		125,620 02
		$394,096 60
Amount of fund, March 31, 1915		3,191,173 89
		$3,585,270 49
For matured bonds:		
Street loans	$60,000 00	
Building loans	60,000 00	
		120,000 00
Amount of fund, March 31, 1916		$3,465,270 49

MUNICIPAL SERIAL LOANS

Appropriation		$62,200 00

EXPENDED

For loans that have matured as follows:		
Bridge (Walden Street)	$400 00	
Park	3,000 00	
Building	5,500 00	
Municipal	1,500 00	
Sewer, separate system	2,500 00	
Schoolhouse	6,500 00	
Street	35,300 00	
School teachers' salary increase	5,000 00	
Sewer construction	500 00	
Hospital	3,000 00	
Total		62,200 00

Sinking Funds—Concluded

WATER SINKING FUNDS

Appropriation		$87,255 00
Amount of funds, March 31, 1915	$1,900,141 93	
Interest accumulations, to March 31, 1916	61,887 85	
Appropriation for 1915-16	87,255 00	
Surplus water receipts, 1915-16	32,400 69	
		2,081,685 47
For matured bonds:		
April 1, 1915	$200,000 00	
August 1, 1915	200,000 00	
		400,000 00
Amount of fund, March 31, 1916		$1,681,685 47

ABATEMENT OF TAXES

EXPENDED

Abatements, as per Assessors' certificates:		
Taxes for 1915:		
Real estate	$21,100 30	
Personal	14,853 80	
Poll	880 00	
		$36,834 10
Taxes for 1914:		
Real estate	$12,761 47	
Personal	1,095 82	
Poll	162 00	
		14,019 29
Taxes for 1913:		
Real estate	$7,311 22	
Personal	6 12	
Poll	2 00	
		7,319 34
Tax Collectors' rebates:		
Year 1915	$1,003 80	
Year 1914	2,556 76	
Year 1913	575 25	
Year 1912	3 00	
Year 1911	37 75	
Year 1909	41 91	
		4,218 47
Refunds:		
Year 1915	$742 90	
Year 1913	2,389 60	
		3,132 50
Total		$65,523 70

Abatements, Taxes—Concluded

ABATEMENTS, STREET SPRINKLING ASSESSMENTS

EXPENDED

For abatements, as per Assessors' certificates:		
Assessments of 1915	$100 02	
Assessments of 1914	12 64	
Assessments of 1913	10 64	
Total		$123 30

ABATEMENTS, MOTH ASSESSMENTS

EXPENDED

For abatements, as per Assessors' certificates:		
Assessments of 1915	$7 44	
Assessments of 1914	2 56	
Total		$10 00

TAX LIEN ACCOUNT

EXPENDED

To return to sundry persons	$2,610 68	
Total		$2,610 68

REFUNDS

Refunds on minors' licenses, school department	$51 00	
Refunds on minors' licenses, police department	32 70	
Refund liquor license to State	50	
Total		$84 20

ABATEMENT OLD DEPARTMENT BILLS

Collectors' rebates	$72 91	
Total		$72 91

CITY OF CAMBRIDGE.

To the Honorable City Council of the City of Cambridge:

In compliance with the provisions of Section 8, Chapter 4, of the "Revised Ordinances of 1892," the undersigned herewith presents a statement showing the estimated revenue, the appropriations, receipts and payments to March 31, 1916, and the balance unexpended, arranged by departments and divisions, which are grouped according to their functions.

Respectfully submitted,

CHARLES H. THURSTON, *Auditor.*

March 31, 1916.

REVENUE ACCOUNTS	Receipts for March, 1916	Total Receipts 1915-1916	Estimated Receipts
Taxes, Real, Personal and Poll, 1915..	$83,095.40	$2,603,850 76	$3,072,469 39
Taxes, previous years	11,226 14	383,454 23	360,000 00
Corporation Tax	1,868 03	171,231 88	170,000 00
National Bank Tax		14,311 96	16,000 00
Street Railway Tax		60,759 19	70,000 00
Licenses	543 00	6,640 30	6,200 00
Court Fines	562 66	3,156 43	3,500 00
Dog Licenses from County		3,039 12	3,500 00
Street Sprinkling Assessments	1,214 36	34,991 89	36,000 00
Moth Extermination Assessments	82 51	1,917 66	3,000 00
Election Expenses, City Clerk's Dept...		6 30	20 00
City Clerk's Department	153 85	1,396 70	1,500 00
Law Department	10 00	1,014 05	1,000 00
Treasury Department	194 80	5,384 48	5,000 00
Municipal Buildings	95 84	1,669 24	4,000 00
Building Permits	427 00	4,276 75	3,000 00
Postage and Stationery	106 76	1,839 63	2000 00
Commissioner of Public Safety			120 00
Fire Department	163 12	163 12	
Police Department	1 00	1 00	
Electrical Department		31 02	500 00
Sealer of Weights and Measures	158 10	722 70	900 00
Moth Extermination Bills		155 30	100 00
Health Department	1,712 25	25,219 92	25,000 00
Inspection of Animals		50 00	
Modified Milk		708 48	650 00
Municipal Hospital		280 00	420 00
Sewers, Maintenance	1 00	173 68	150 00
House Offal	1,640 94	*17,382 81	13,000 00
Incinerators	150 00	900 00	900 00
Street Maintenance	240 85	1,851 15	3,000 00
Street Sprinkling		58 84	150 00
Sidewalk Repairs	42 88	1,113 54	1,600 00
City Home	69 90	396 55	500 00
City Home Hospital	196 42	281 42	300 00
City Farm		2,079 80	
Outside Aid	1,374 62	25,592 27	18,000 00
Soldiers' Benefits	34 00	12,619 00	13,850 00
Schools, Tuition, Sales, etc.	1,627 54	11,240 26	8,000 00
Library Fines	349 46	1,187 52	1,100 00
Park Department, Rents		542 00	550 00
Park Department, Baths		576 54	835 00
Cambridge Field Shelter	9 16	195 28	300 00
Rindge Field Shelter	2 56	119 42	150 00
Russell Field		630 94	250 00
Thorndike School Shower Baths	127 36	127 36	
Fourth of July Celebration		*300 00	250 00
Cemetery Department	6,292 51	23,445 30	31,000 00
Stadium Bridge		4,204 76	
Interest	3,920 96	34,109 78	27,000 00
Water Works, Rates, etc.	12,733 84	399,405 31	415,000 00
Water Works, Miscellaneous	1,306 38	16,803 69	
Rent of Land, Harvard College		2,400 00	2,400 00
	$131,735 20	$3,884,009 33	$4,323,164 39

*Re-appropriated.

SUMMARY OF EXPENDITURES 1915-1916

TITLES OF ACCOUNTS	Appropriations	Additional Appropriations and Transfers to	Transfers From	Total Amount Appropriated		Total Amount Expended	
GENERAL GOVERNMENT							
City Council Expenses	$6,740 00	$318 22	$124 97	$6,933 25		$6,933 25	
City Council Salaries	.....	1,875 00	30	1,874 70		1,874 70	
Clerk of Committees							
Salaries	4,634 00	.....	.....	4,634 00		4,634 00	
Expenses	300 00	30 13	50 00	280 13		280 13	
Executive Department							
Salaries	6,184 00	124 97	1,009 67	5,299 30		5,299 30	
Expenses	1,000 00	71 41	43 54	1,027 87		1,027 87	
License Supervision	925 00	.....	191 01	733 99		733 99	
Workingmen's Compensation	900 00	.....	206 55	693 45		693 45	
Auditing Department							
Salaries	6,209 00	.....	46 50	6,162 50		6,162 50	
Expenses	425 00	.....	20 05	404 95		404 95	
Treasurer and Collector							
Salaries	13,000 00	340 61	.....	13,340 61		13,340 61	
Expenses	4,000 00	*2,415 00	3 44	6,411 56		6,411 56	
Assessors' Department							
Salaries	16,900 00	.....	199 37	16,700 63		16,700 63	
Expenses	2,500 00	100 00	.....	2,600 00		2,600 00	
Assessors' Plans	200 00	.....	.....	200 00		200 00	
City Clerk's Department							
Salaries	7,439 90	.....	83 11	7,356 79		7,356 79	
Expenses	2,100 00	.....	5 45	2,094 55		2,094 55	
Classified General Index	500 00	.....	1 27	498 73		498 73	
Printing Town Records and Russell Memorial	1,000 00	.....	1,000 00	.....		.....	
City Messenger's Department							
Salaries	2,488 00	.....	.....	2,488 00		2,488 00	
Expenses	300 00	4 95	.....	304 95		304 95	
Postage and Stationery	2,000 00	.....	12 45	1,987 55		1,987 55	
Law Department							
Salaries	4,280 00	.....	483 00	3,797 00		3,797 00	
Expenses	900 00	880 22	125 77	1,654 45		1,654 45	
Amounts carried forward	$84,924 90	$6,160 51	$3,606 45	$87,478 96		$87,478 96	

*From Revenue Premium. $1,875.00
From Revenue Water, $500.00.

SUMMARY OF EXPENDITURES 1915-1916—Continued

TITLES OF ACCOUNTS	Appropriations	Additional Appropriations and Transfers to	Transfers From	Total Amount Appropriated	Expended in March	Total Amount Expended	Balances Unexpended
Amounts brought forward	$84,924 90	$6,160 51	$3,606 45	$87,478 96		$87,478 96	
General Government—Continued							
Elections and Registration							
City Clerk	11,517 00	.....	1,553 36	9,963 64		9,963 64	
Registrars of Voters	5,200 00	97 48	.....	5,297 48		5,297 48	
Polling Places	3,100 00	.....	473 58	2,626 42		2,626 42	
Engineering Department							
Salaries	8,500 00	327 35	.....	8,827 35		8,827 35	
Expenses	550 00	.....	37 44	512 56		512 56	
Superintendent and Inspector of buildings							
Salaries	9,572 52	426 11	.....	9,998 63		9,998 63	
Expenses	1,000 00	.....	10	999 90		999 90	
Civil Service Labor Registration	325 00	.....	11 14	313 86		313 86	
Municipal Buildings							
Salaries	12,618 00	506 08	.....	13,124 08		13,124 08	
Expenses and Repairs	9,500 00	200 00	514 14	9,185 86		9,185 86	
Administration of Sinking Funds	375 00	.....	45 00	330 00		330 00	
Tax Assessment Committee	3,000 00	.....	1 91	2,998 09		2,998 09	
PROTECTION OF LIFE AND PROPERTY							
Commissioner of Public Safety	391,657 66	1 53	.....	391,659 19		9,774 04	
Police Department							
Salaries	.....	.....	.....	.....		201,376 12	
Expenses	.....	.....	.....	.....		7,629 86	
Fire Department							
Salaries	.....	.....	.....	.....		147,637 29	
Expenses	.....	.....	.....	.....		25,241 88	
Fire and Police Telegraph and inspection of Wires							
Salaries	15,000 00	.....	284 01	14,715 99		14,715 99	
Expenses	3,500 00	.....	1 11	3,498 89		3,498 89	
Amounts carried forward..	$560,340 08	$7,719 06	$6,528 24	$561,530 90		$561,530 90	

SUMMARY OF EXPENDITURES 1915-1916—Continued

TITLES OF ACCOUNTS	Appropriations	Additional Appropriations and Transfers to	Transfers From	Total Amount Appropriated		Total Amount Expended	
Amounts brought forward	$560,340 08	$7,719 06	$6,528 24	$561,530 90		$561,530 90	
Protection of Life and Property— Continued							
Fire Alarm and Keyless Boxes	500 00	.....	.....	500 00		500 00	
Underground Cable	2,500 00	.....	238 95	2,261 05		2,261 05	
MILITIA: Use of Rifle Range and Transportation							
Troop C; M. V. M.	250 00	.....	52 78	197 22		197 22	
Headquarters; 8th Regiment	150 00	.....	89 30	60 70		60 70	
Company A, 8th Regiment	250 00	.....	30 50	219 50		219 50	
Company C, 8th Regiment	250 00	67 83	.....	317 83		317 83	
Company E, 8th Regiment	250 00	71 25	.....	321 25		321 25	
Company 6; C. A. C.	250 00	23 13	.....	273 13		273 13	
SEALER OF WEIGHTS AND MEASURES							
Salaries	5,000 00	.....	483 00	4,517 00		4,517 00	
Expenses	800 00	158 12	268 89	689 23		689 23	
FORESTRY							
Care of Trees	16,000 00	.....	262 23	15,737 77		15,737 77	
HEALTH AND SANITATION							
Health							
Salaries	18,000 00	376 34	.....	18,376 34		18,376 34	
School Dentist	1,000 00	.....	715 84	284 16		284 16	
General Expenses	20,000 00	108 24	.....	20,108 24		20,108 24	
Diphtheria Hospital	8,500 00	150 39	.....	8,650 39		8,650 39	
Tuberculosis Hospital	27,000 00	.....	391 41	26,608 59		26,608 59	
Inspection of Milk and Vinegar	2,300 00	121 71	.....	2,421 71		2,421 71	
Modified Milk	1,500 00	304 94	.....	1,804 94		1,804 94	
Inspection of Animals	1,500 00	266 00	12 11	1,753 89		1,753 89	
Amounts carried forward	$666,340 08	$9,367 01	$9,073 25	$666,633 84		$666,633 84	

TITLES OF ACCOUNTS	Appropriations	Additional Appropriations and Transfers to	Transfers From	Total Amount Appropriated		Total Amount Expended	
Amounts brought forward	$666,340 08	$9,367 01	$9,073 25	$666,633 84		$666,633 84	
Health and Sanitation—Continued							
Sanitation							
Sewers, Maintenance	20,000 00	.....	675 90	19,324 10		19,324 10	
Refuse Collection and Disposal							
House Offal							
Labor	44,000 00	710 51	.....	44,710 51		44,710 51	
Expenses	8,000 00	7,124 19	.....	15,124 19		15,124 19	
Pensions	2,423 69	.....	446 55	1,977 14		1,977 14	
Rebuilding Stable	3,000 00	.....	7 50	2,992 50		2,992 50	
Collection of Ashes	68,000 00	10,799 84	.....	78,799 84		78,799 84	
Street Cleaning	57,000 00	2,052 82	.....	59,052 82		59,052 82	
Snow Removal	5,000 00	7,854 25	.....	12,854 25		12,854 25	
Game Warden	50 00	.....	.....	50 00		50 00	
HIGHWAYS AND BRIDGES							
Salaries—Superintendent of Streets and Clerks	6,904 00	.....	515 25	6,388 75		6,388 75	
Maintenance and Repairs ...	89,300 00	7,591 99	.....	96,891 99		96,891 99	
Horses and Automobiles ..	9,000 00	2,500 00	691 04	10,808 96		10,808 96	
Crossings	700 00	.....	20 34	679 66		679 66	
Sidewalk Repairs	7,000 00	**300 00	71 15	7,228 85		7,228 85	
Street Sprinkling	40,000 00	.....	767 50	39,232 50		39,232 50	
Street Lighting							
Salaries	1,000 00	.....	250 00	750 00		750 00	
Expenses	71,000 00	.....	662 39	70,337 61		70,337 61	
Street Department: Bridges	14,000 00	782 84	.....	14,782 84		14,782 84	
Pensions	4,553 80	247 80	.....	4,801 60		4,801 60	
Brick and Bitulithic Repairs	3,000 00	.....	.....	3,000 00		3,000 00	
Boston and Cambridge Bridges							
Salaries and Labor	12,000 00	.....	352 78	11,647 22		11,647 22	
Expenses	7,000 00	.....	388 49	6,611 51		6,611 51	
Amounts carried forward	$1,139,271 57	$49,331 25	$13,922 14	$1,174,680 68		$1,174,680 68	

**From Revenue.

SUMMARY OF EXPENDITURES 1915-1916—Continued

TITLES OF ACCOUNTS	Appropriations	Additional Appropriations and Transfers to	Transfers From	Total Amount Appropriated	Expended in March	Total Amount Expended	Balances Unexpended
Amounts brought forward	$1,139,271 57	$49,331 25	$13,922 14	$1,174,680 68		1,174,680 68	
CHARITIES							
City Farm Labor	*3,550 00	29		3,550 29		3,550 29	
City Farm Expenses	*1,000 00		232 08	767 92		767 92	
City Home							
Salaries	8,500 00	644 51		9,144 51		9,144 51	
Expenses	20,000 00	7,684 00	11 16	27,672 84		27,672 84	
City Home Hospital							
Salaries	1,081 60		12 00	1,069 60		1,069 60	
Expenses	605 00	3 26		608 26		608 26	
Outside Relief							
Salaries	8,063 00	282 15		8,345 15		8,345 15	
Expenses	65,000 00	32,238 51	864 00	96,374 51		96,374 51	
SOLDIERS' BENEFITS	33,000 00		1 54	32,998 46		32,998 46	
Caring for Soldiers' Graves		207 70		207 70		207 70	
EDUCATION							
School Department Expenses	692,932 78			709,553 29			
Salaries	**5,431 25					616,168 42	
All Other Expenses	**11,189 26					87,372 57	
LIBRARIES AND READING ROOMS							
Central Library							
Salaries	13,905 25	78 02		13,983 27		13,983 27	
General Expenses	9,965 00		529 22	9,435 78		9,435 78	
Cambridgeport Branch							
Salaries	1,443 00	58 34		1,501 34		1,501 34	
Expenses	2,539 00		58 77	2,480 23		2,480 23	
East Cambridge Branch							
Salaries	1,559 00	5 54		1,564 54		1,564 54	
Expenses	2,104 00		5 69	2,098 31		2,098 31	
North Cambridge Branch							
Salaries	2,381 66	6 26		2,387 92		2,387 92	
Expenses	2,134 00		6 36	2,127 64		2,127 64	
Cambridge Field Branch	2,000 00		95 51	1,904 49		1,904 49	
Mt. Auburn Branch	1,000 00		56	999 44		999 44	
Amounts carried forward	$2,028,655 37	$90,539 83	$15,739 03	$2,103,456 17		$2,097,443 87	

*Additional Appropriation from Tax Levy. **From Revenue.

School Balance 6,012 30

$2,103,456 17

SUMMARY OF EXPENDITURES 1915-1916—Continued

TITLES OF ACCOUNTS	Appropriations	Additional Appropriations and Transfers to	Transfers From	Total Amount Appropriated	Expended in March	Total Amount Expended	Balances Unexpended
Amounts carried forward	$2,028,655 37	$90,539 83	$15,739 03	$2,103,456 17		$2,097,443 87	
RECREATION							
Park Maintenance							
Salaries	3,040 00	.....	.....	3,040 00		3,040 00	
General Account	31,295 00	588 20	432 46	31,450 74		31,450 74	
Oiling, Fletcher, Morse and Wellington Grounds	500 00	.....	183 20	316 80		316 80	
Shower Baths, Thorndike School	1,000 00	.....	21 42	978 58		978 58	
Fence at Sleeper School	*900 00	.....	900 00	.....		.....	
Playgrounds Commission							
Salaries	*3,360 00	.....	119 75	3,240 25		3,240 25	
Expenses	500 00	128 31	.....	628 31		628 31	
Const. Eqipment and Maintenance of Playgrounds	*6,000 00	8 56	5 07	6,003 49		6,003 49	
Ward 9 Playground	2,500 00	.....	2,500 00	.....		.....	
Celebrations:							
Independence Day	1,000 00	**343 54	.....	1,343 54		1,343 54	
Labor Day	300 00	.....	3 50	296 50		296 50	
Memorial Day	1,200 00	.....	.....	1,200 00		1,200 00	
CEMETERIES							
Salaries and Labor	18,000 00	.....	2 48	17,997 52		17,997 52	
General Expenses	2,500 00	.....	85	2,499 15		2,499 15	
Horses	500 00	.....	08	499 92		499 92	
INTEREST	370,317 63	.....	189 12	370,128 51		370,128 51	
SINKING FUNDS	268,676 58	.....	200 00	268,476 58		268,476 58	
SERIAL LOANS	62,200 00	.....	.....	62,200 00		62,200 00	
UNCLASSIFIED							
Reserve Fund	25,000 00	26,720 26	51,720 26	.....		.....	
Damages to Persons and Personal Property	4,000 00	.....	1,073 06	2,926 94		2,926 94	
Teachers' Pensions	10,150 92	.....	146 76	10,004 16		10,004 16	
Industrial Commission	300 00	.....	176 00	124 00		124 00	
Emergency Appropriations	40,000 00	.....	40,000 00	.....		.....	
Planning Board	1,000 00	.....	507 38	492 62		492 62	
Amounts brought forward	$2,882,895 50	$118,328 70	$113,921 24	$2,887,303 78		$2,881,291 48	

*New Appropriation from Tax Levy. **Reappropriated from Revenue.

SUMMARY OF EXPENDITURES 1915-1916—Continued

TITLES OF ACCOUNTS	Appropriations	Additional Appropriations Transfers to and	Transfers from	Total Amount Appropriated		Expended to Date	Balance Unexpended
Amounts brought forward	$2,882,895 50	$118,328 70	$113,921 24	$2,887,303 78		$2,881,291 48	
Unclassified—Continued							
Free Employment Bureau							
Salaries	900 00			900 00		900 00	
General Expenses	200 00		82	199 18		199 18	
Indemnification of Police Officers		701 91		701 91		701 91	
New System Accounts		2,301 64		2,301 64		2,301 64	
Total for Revenue Accounts	$2,883 995 50	$121,332 25	$113,921 24	$2,891,406 51		$2,885,394 21	$6,012 30
MUNICIPAL INDUSTRIES							
WATER WORKS							
Salaries of Superintendent, Registrar, Inspectors and Clerks	$22,819 00			$22,819 00		$22,790 38	$28 62
General Expenses	80,000 00	$500 00	$500 00	80,000 00		76,236 64	3,763 36
Fresh Pond Reservoir	12,165 00			12,165 00		11,336 43	828.57
Hobb's Brook Reservoir	2,574 46			2,574 46		2,248 75	325 71
Payson Park Reservoir	1,365 00			1,365 00		1,206 17	158 83
Stony Brook Reservoir	5,629 00			5,629 00		3,756 81	1,872 19
Pumping							
Salaries	13,650 00	**178 97		13,828 97		13,828 97	
Expenses	22,185 05	**7,610 00		29,795 05		25,457 40	4,337 65
Services of City Treasurer and City Solicitor	2,500 00	**500 00		3,000 00		3,000 00	
Ice for Fountains	1,400 00			1,400 00		719 83	680 17
Interest	103,395 25	**4,867 25		108,262 50		103,197 75	5,064 75
Sinking Funds	87,255 00			87,255 00		87,255 00	
Serial Loans	19,523 50	†976 50		20,500 00		20,500 00	
Abatements and Refunds	5,500 00	**880 43		6,380 43		6,380 43	
Total for Municipal Industries.	$379,961 26	$15,513 15	$500 00	$394,974 41		$377 914 56	$17,059 85

*New Appropriation from Tax Levy. **Reappropriated from Revenue. †Reappropriated from Premiums.

TITLES OF ACCOUNTS	Loans	Receipts from Loans	Other Special Receipts	Amounts Reappropriated	New Appropriations	Total Appropriations		Expended to Date	Balances Unexpended to be reapporpriated
SPECIAL FUNDS AND LOAN ACCOUNTS									
PROTECTION OF LIFE AND PROPERTY									
Fire Alarm Apparatus	$25,000 00	$25,000 00	.....	$24,734 00	.....	$24,734 00		$19,785 15	$4,948 85
HEALTH AND SANITATION									
Addition to Hospital	.....	.....	.....	79,369 50	.....	79,369 50		54,409 40	24,960 10
Municipal Hospital	90,000 00	.....	.....	10,849 30	$90,000 00	100,849 30		35,767 77	65,081 53
SEWERS									
Construction General	30,000 00	15,000 00	6,346 17	6,346 17	30,000 00	36,346 17		23,296 31	13,049 86
Separate System of Drainage	15.000 00	15,000 00	.....	2,268 32	15,000 00	17,268 32		17,235 78	32 54
HIGHWAYS AND BRIDGES									
Rebuilding and Construction Streets									
Land Damages	11,000 00	5,000 00	.....	40	11,000 00	11,000 40		10,310 00	690 40
Boylston Street	12,500 00	12,500 00	.....	.....	12,500 00	12,500 00		12,499 79	21
Cedar Street	3,500 00	3,500 00	.....	.....	3,500 00	3,500 00		3.141 76	358 24
Chestnut Street	3,250 00	3,250 00	.....	.....	3,250 00	3,250 00		2,761 14	488 86
Concord Avenue	38.000 00	.....	35,269 74	.....	38,000 00	38,000 00		37.234 18	765 82
Garden Street	5,500 00	5,500 00	.....	.....	5,500 00	5,500 00		3,782 71	1,717 29
Higham, Stiles and Akron Streets	7,500 00	7,500 00	.....	.....	7,500 00	7,500 00		7,499 66	34
Huron Avenue	60,000 00	60,0000 00	.....	.....	60,000 00	*58,489 78		56,675 51	1,814 27
Lowell Street	1,500 00	1,500 00	.....	.....	1,500 00	1,500 00		649 86	850 14
Massachusetts Ave., Bigelow Street to Quincy Street	50,000 00	50,000 00	645 00	.....	50,000 00	*51,510 22		51,510 22	.....
Munroe St., Third to Sixth Street	7,000 00	.....	.....	2,500 00	7.000 00	9,500 00		4.354 23	145 77
Windsor Street	2,500 00	2,500 00	.....	.....	2,500 00	2,500 00		2,466 18	33 82
Windsor Street, Harvard St. to Hampshire Street	3,250 00	3,250 00	.....	.....	3.250 00	3,250 00		2,680 22	569 78
Lawn Street	1,900 00	1,900 00	.....	.....	1,900 00	*1,884 72		1,747 90	136 82
Putnam Avenue	100 00	100 00	.....	.....	100 00	100 00		100 00	.....
Washburn Avenue	500 00	500 00	.....	.....	500 00	*515 28		215 28	300 00
Vassar Street	5,000 00	.....	.....	.....	5,000 00	5,000 00		2,842 22	2,157 78
Edgestones and Sidewalks	7,500 00	7,500 00	4.616 81	4,616 81	7,500 00	12,116 81		11,630 50	486 31

*Transfers.

SUMMARY OF EXPENDITURES 1915-1916—Concluded

TITLES OF ACCOUNTS	Estimated Receipts	Receipts from Loans	Other Special Receipts	Amounts Reappropriated	New Appropriations	Total Appropriations		Expended to Date	Balances Unexpended to be reappropriated
Highways and Bridges—Continued									
Bridges									
Cambridge Bridge	60,000 00	60,000 00	.....	477 17	60,000 00	60,477 17		50,638 03	9,839 14
Walden Street Bridge	.....	.....	.....	272 93	.....	272 93		.....	272 93
CHARITIES									
Restoring and Constructing City Home	55,000 00	55,000 00	.....	38,377 00	15,000 00	53,377 00		44,048 16	9,328 84
EDUCATION									
Haggerty Schoolhouse	.....	.....	.....	35,523 00	.....	35,523 00		35,523 00	.....
Agassiz Schoolhouse	10,000 00	.....	.....	59,970 00	10,000 00	69,970 00		31,269 62	38,700 38
RECREATION									
Park Department									
Construction and Lands	30,000 00	30,000 00	.....	10,331 53	30,000 00	40,331 53		40,317 89	13 64
Land for Playgrounds	25,000 00	25,000 00	.....	8,705 90	.....	8,705 90		3,900 00	4,805 90
CEMETERY									
Office Building and Grading	.....	.....	.....	2,474 57	.....	2,474 57		.....	2,474 57
MUNICIPAL INDUSTRIES									
Water Department									
Construction General	.....	.....	2,536 89	32,526 74	.....	32,526 74		31,052 44	1,474 30
Hobbs' Brook Conduit	.....	.....	.....	9121 47	.....	9,121 47		5,662 64	3,458 83
Detector Meter	.....	.....	3,833 40	13,833 40	.....	13,833 40		2,383 75	11,449 65
UNCLASSIFIED									
Premium Account	.....	.....	*4,756 73	.....	.....	.....		.....	.....
Memorial Flag Staff	.....	.....	.....	190 49	.....	190 49		172 17	18 32
Totals for Special Fund Accounts	$560,500 00	$389,500 00	$58,004 74	$342,169 42	$470,500 00	$812,669 42		$607,563 47	$205,105 95

*$1,875 Reappropriated Treasurer's General Expenses for Certifying Loans.

CITY TREASURY

DR.

To cash in Treasury, April 1, 1915	$61,889 66	
Receipts from Revenue Fund Accounts	3,467,800 33	
Receipts from Water Rates, etc	416,209 00	
Receipts from Special Fund Accounts	58,004 74	
Sinking Fund Commissioners (Water)	400,000 00	
Sinking Fund Commissioners (City)	120,000 00	
Cemetery Fund and Deeds in Trust	3,434 51	
Tax Lien Account	3,524 13	
Loan, Building	80,000 00	
Loan, Cambridge Bridge	60,000 00	
Loan, Parks	30,000 00	
Loan, Playgrounds	25,000 00	
Loan, Sewer Construction, General	15,000 00	
Loan, Sewer Separate System	15,000 00	
Loan, Street	164,500 00	
Temporary Loan, taxes 1915	1,650,000 00	
		$6,570,362 37

CR.

By amount expended, Revenue Fund Accounts	$2,885,394 21	
Amount expended, Water Revenue Accounts	377,914 56	
Amount expended, Special Fund Accounts	607,563 47	
Abatement, Taxes	65,523 70	
Abatement, Sprinkling Assessments	123 30	
Abatements, Moth Assessments	10 00	
Abatements, Old Department Bills	72 91	
Refunds on Minors' Licenses, Police Department	32 70	
Refunds on Minors' Licenses, School, Department	51 00	
Loan, Water	400,000 00	
Loan, Street	60,000 00	
Loan, Building	60,000 00	
Trustees of the Cemetery Fund and Deed in Trusts	3,434 51	
Tax Lien Account	2,610 68	
Temporary Loans, Taxes, 1914	250,000 00	
Temporary Loans, Taxes, 1915	1,200,000 00	
Liquor Licenses to State	50	
State, County and Metropolitan Taxes	616,863 77	
Surplus Receipts, Water Department to Sinking Fund	32,400 69	
		$6,561,996 00
Balance in Treasury, as per Auditor's Account, March 31, 1916		$8,366 37

The borrowing capacity for City Purposes, January 1, 1915, was $338,898 22

Since January 1, 1915, the following Loan Orders have been passed:

INSIDE DEBT LIMIT

1915		
March 1.	School Loan	$65,000 00
May 1.	Street—Edgestones, etc.	7,500 00
July 1.	Building—City Home	55,000 00
July 1.	Building—Fire Alarm	25,000 00
July 1.	Street—Windsor Street	2,500 00
July 1.	Boylston Street	12,500 00
July 1.	Stiles Street	7,500 00
July 1.	Sewer—Const. Gen.	15,000 00
Sept. 1.	Street—Huron Avenue	60,000 00
Oct. 1.	Street—Land Damage	5,000 00
Oct. 1.	Street—Cedar Street	3,500 00
Oct. 1.	Street—Windsor Street	3,250 00
Oct. 1.	Street—Chestnut Street	3,250 00
Oct. 1.	Street—Garden Street	5,500 00
Oct. 1.	Street—Lowell Street	1,500 00
Nov. 1.	Street—Massachusetts Avenue	50,000 00
Dec. 1.	Street—Putnam Avenue, etc.	2,500 00
Dec. 1.	Street—Munroe Street	7,000 00
	Total Inside Debt Limit	$331,500 00
Dec. 31, 1915.	Borrowing capacity	7,398 22
		$338,898 22

OUTSIDE DEBT LIMIT

1915		
May 1.	Cambridge Bridge	$60,000 00
July 1.	Land for Playgrounds	25,000 00
July 1.	Park Construction	25,000 00
July 1.	Sewer Separate System	15,000 00
Dec. 1.	Park Construction	5,000 00
	Total Outside Debt Limit	$130,000 00

SCHEDULE B

Nos. I to VII

ASSETS AND LIABILITIES

SCHEDULE B-I

March 31, 1916

ASSETS		LIABILITIES	
Current Assets (B-II)	$505,029 28	Current Liabilities (B-II)	$243,763 81
Contingent Assets (B-III)	184,479 11	Contingent Liabilities (B-IV)	61,828 96
Trust Funds and Special Deposits (B-IV)	181,352 78	Trust Liabilities (B-IV)	181,352 78
Sinking Funds (B-V)	5,146,955 96	Bonded Debt (B-V)	12,218,850 00
Total Available Assets	$6,017,817 13	Total Liabilities	$12,705,795 49
Fixed Assets (Unavailable B-VI)	16,927,897 93	General Deficit and Surplus Account (B-VIII)	10,239,919 57
Grand Total of Assets	$22,945,715 06	Grand Total of Liabilities	$22,945,715 06

SCHEDULE B-II

CURRENT ASSETS

CASH:		
Cash in the Treasury March 31, 1916		$8,366 37
GOOD ACCOUNTS RECEIVABLE:		
Delinquent Property Taxes, 1915	$468,620 43	
Other good accounts:		
Moth Assessments	412 27	
Sewer Assessments	3,313 63	
Sidewalk Assessments	4,063 89	
Street Watering Assessments	5,589 19	
Water Department Rates, etc	11,197 54	
Miscellaneous Bills	3,465 96	
Total Good Accounts Receivable		496,662 91
Total Current Assets		$505,029 28

CURRENT LIABILITIES

(Floating Debts)

I. OUTSTANDING ACCOUNTS DUE AND UNPAID:		
Of the current year	$243,302 74	
Of previous years		
Tax sale surplus	461 07	
Total Current Liabilities		$243,763 81
Surplus of Current Assets (B-VII)		$261,265 47

SCHEDULE B-III

CONTINGENT ASSETS

DOUBTFUL ACCOUNTS RECEIVABLE:

Delinquent Personal Property and Poll Taxes, viz.:		
1914	$104,435 23	
1913	27,947 06	
1912	21,274 76	
1911	23,746 76	
		$177,403 81
Liens		5,362 82
Other doubtful accounts, viz.:		
Miscellaneous Bills		1,712 48
Total Contingent Accounts		$184,479 11

CONTINGENT LIABILITIES

RETENTION FUND ACCOUNT:

Percentage of Contractors' Payments Retained, viz.:		
Thos. W. Byrne (Agassiz School)	$128 09	
John B. Byrne Co. (Tub. Hosp.)	13,885 00	
Carlisle Connor Co. (City Home)	398 50	
Crosby Conley Co. (Agassiz School)	300 00	
J. M .Dolan (Agassiz School)	6,027 50	
Foster Electric Co. (Tub. Hosp.)	284 63	
Gamewell Fire Alarm Co. (Fire Alarm Apparatus)	3,500 00	
E. T. P. Graham (City Home)	688 05	
J. J. Hurley & Co. (Tub. Hosp.)	1,557 50	
J. J. Hurley & Co. (Mun. Hosp.)	1,008 75	
Lynch & Woodward (Agassiz School)	1,399 38	
P. J. Mooney (Tub. Hosp.)	716 07	
G. T. O'Brien (City Home)	7,060 85	
Walsh Bros. (Mun. Hosp.)	6,374 58	
Boiler, Iron Pipe and Hydrants, Water Dept.	18,500 00	
		61,828 90
Surplus of Contingent Assets (B-VII)		$122,650 21

SCHEDULE B-IV

TRUST FUND ASSETS

Special Deposits, etc., viz.:		
Cemetery Fund	$2,084 45	
Bridge Charitable Fund	2,650 19	
Dowse Institute Fund	714 48	
Daniel White Charity Fund	615 77	
Sarah E. Russell Fund	814 41	
William E. Saunders Fund	307 06	
Citizens' Subscription Fund	577 84	
Cummings Legacy	248 35	
Fay Legacy	102 03	
James A. Woolson Fund	254 90	
Edward H. Whorf Fund	275 81	
William Penn Harding Fund	1,061 25	
John Wesley Freese Fund	92 96	
Mehitable C. C. Wilson Fund	590 83	
Tailings Account Trust Fund	4,577 81	
Total Cash in Trust Funds		$16,777 91

INVESTMENT OF TRUST FUNDS:

Stock and Bonds in Various Funds, viz.:		
Cemetery Fund	$109,758 00	
Cummings Legacy	2,000 00	
Fay Legacy	1,000 00	
Cemetery Fund. Deeds in Trust	392 00	
Citizens' Subscription Fund	5,500 00	
Dowse Institute Fund	10,000 00	
Daniel White Charity Fund	10,360 00	
Sanders Temperance Fund	10,000 00	
William E. Saunders Fund	7,564 87	
James A. Woolson Fund	5,000 00	
Edward H. Whorf Fund	3,000 00	
		164,574 87
Total Assets in Trust Funds		$181,352 78

LIABILITIES

Trust Funds and Special Funds, viz.:		
Cemetery Fund Account	$111,842 45	
Bridge Charitable Fund	2,650 19	
Dowse Institute Fund	10,714 48	
Daniel White Charity Fund	10,975 77	
Sarah E. Russell Fund	814 41	
William E. Saunders Fund	7,871 93	
Amount carried forward	$144,869 23	

Schedule B-IV Trust Fund Assets—Concluded

Amount brought forward	$144,869 23	
Citizens' Subscription Fund	6,077 84	
Cummings Legacy	2,248 35	
Fay Legacy	1,102 03	
James A. Woolson Fund	5,254 90	
Edward H. Whorf Fund	3,275 81	
William Penn Harding Fund	1,061 25	
The Hopkins Fund	1,809 77	
Cemetery Fund, Deeds in Trust	392 00	
Sanders Temperance Fund	10,000 00	
Mehitable C. C. Wilson Fund	590 83	
John Wesley Freese Fund	92 96	
Tailings Account Trust Fund	4,577 81	
Total Liabilities		$181,352 78

SCHEDULE B-V

BONDED DEBTS OF THE CITY

1. GENERAL BONDS:

a. For General Municipal Purposes:
City Funded and Serial Debt.....$9,717,250 00
b. For Municipal Enterprises:
Water Works, Funded and Serial Debt.... 2,501,600 00

2. SPECIAL ASSESSMENT BONDS:

Total of Bonded Debts.....$12,218,850 00

SINKING FUND ASSETS

INVESTMENT OF SINKING FUNDS:

Bonds and Other Securities, viz.:
(For list of securities see Report of the Sinking Fund Commissioners)
Sinking Funds, City Debt.....$3,465,270 49
Sinking Funds, Water Debt..... 1,681,685 47

Total Sinking Funds $5,146,955 96
Excess of Debts (Net City and Water Debts) (See B-VII)..... 7,071,894 04

$12,218,850 00

SCHEDULE B-VI

FIXED ASSETS

LAND, BUILDINGS AND EQUIPMENT:		
Law Department, Equipment		$392 00
City Buildings:		
Land	$135,700 00	
Buildings	335,300 00	
Equipment	46,736 00	
		517,736 00
Police Department, Equipment		6,018 00
Fire Department:		
Land	$49,600 00	
Buildings	203,500 00	
Equipment	110,791 00	
		363,891 00
Fire and Police Telegraph, Equipment		59,665 00
Health Department:		
Land	$4,500 00	
Buildings	20,000 00	
Equipment	4,415 75	
		28,915 16
Inspection of Milk and Vinegar, Equipment		1,011 50
Municipal Hospital Land		60,000 00
Cemeteries:		
Land	$92,000 00	
Buildings	7,600 00	
Equipment	4,000 00	
		103,300 00
Sealer of Weights and Measures, Equipment		2,856 84
City Home:		
Land	$47,150 00	
Buildings	28,200 00	
Equipment	8,800 00	
		84,150 00
Overseers of Poor—Office Equipment		1,050 00
Street Department (Stables, etc.):		
Land	$125,300 00	
Buildings	70,500 00	
Equipment	97,980 00	
		293,780 00
Engineering Department, Equipment		137,885 50
Sewer Department (Stables, etc.):		
Land	$5,900 00	
Buildings	5,600 00	
Equipment	4,250 00	
		14,750 00
Street Lighting Equipment		3,455 00
Bridge Department, Equipment		2,330 00
Water Works (Total cost to March 31, 1916)		6,700,282 29
Schools:		
Land	$396,400 00	
Buildings	1,894,500 00	
Equipment	193,507 44	
		2,484,407 44
Amount carried forward		$10,860,688 89

Schedule B-VI—Concluded

Amount brought forward		$10,860,688 89
Library:		
Land	$85,000 00	
Buildings	145,000 00	
Equipment	102,100 00	
		332,100 00
Parks:		
Land	$5,354,241 68	
Buildings	122,100 00	
Equipment	3,600 00	
		5,479,941 68
Playgrounds		210,549 36
Other land not included in any of the Dept. Schedules		44,600 00
Total Fixed Assets (See B-VII)		$16,927,897 93

SCHEDULE B-VII

GENERAL DEFICIT AND SURPLUS ACCOUNT

DEFICITS

a Deficit of Current Assets (B-II), if any.....		
a Deficit of Contingent Assets (B-III), if any.....		
a Deficit of Trust Fund Assets (B-IV), if any.....		
b Deficit of Sinking Funds Assets (B-V), viz.:		
Net Bonded Debt	$7,071,894 04	
Total of all Deficits		$7,071,894 04

SURPLUS

b Surplus of Current Assets (B-II), if any.....	$261,265 47	
a Surplus of Contingent Assets (B-III), if any....	122,650 21	
a Surplus of Trust Funds (B-IV), if any.....		
a Surplus of Sinking Funds (B-V), if any.....		
Total Surplus, excluding Fixed Assets.....		383,915 68
Excess of Deficits, viz.:		
Total Net Debts of the City.....		$6,687,978 36

BALANCE

Total of Fixed Assets:		
Land, Buildings Equipments (B-VI).....	$16,927,897 93	
Deduct Total Net Debts of the City, as above....	6,687,978 36	
Balance of this Account, General Surplus (B-I).....		$10,239,919 57

a Balance of Schedule (B-II) will appear under one or the other of these heads.

b Balance of other schedules (B-III), etc., will appear in like manner.

c Fixed Assets are set up by themselves under "Balance." (See above.)

SCHEDULE B

No. VIII

CITY FUNDED DEBT;
CITY SERIAL DEBT
AND OTHER
MISCELLANEOUS TABLES

CITY FUNDED DEBT

There have been additions to the City Funded Debt during the year as follows:

Sewer Loan, serial coupon bonds, payable in one to thirty years, at at annual interest of four per cent. For the purpose of constructing sewers (separate system) as authorized by Chapter 383, Acts of 1903	$15,000 00
Park Loan, serial coupon bonds, payable in one to thirty years, at an annual interest of four per cent. For the purpose of constructing boulevards and roadways adjacent to and connecting the parks of the city of Cambridge, as authorized by Chapter 578, Acts of 1912	30,000 00
Cambridge City Hospital Loan, serial coupon bonds, payable in one to twenty years at an annual interest of four per cent. For the purpose of acquiring land and erecting a building for hospital purposes, including cost of the original equipment and furnishings, as authorized by Chapter 545, Acts of 1911	90,000 00
Cambridge Bridge Loan, serial coupon bonds, payable in one to thirty years, at an annual interest of four per cent. For the purpose of paying land damages awarded by jury in Superior Court in the County of Middlesex for the taking and injury of property in construction of approaches on the Cambridge side of the Cambridge Bridge, as authorized by Chapter 467, Acts of 1898	60,000 00
Land for Playground Loan, serial coupon bonds, payable in one to thirty years, at an annual interest of four per cent. For the purpose of acquiring land for public playgrounds, as specified in Section 19, Chapter 27, of the Revised Laws and amendments thereto	25,000 00
Sewer Construction General Loan, serial coupon bonds, payable in one to thirty years, at an annual interest of four per cent. For the purpose of constructing sewers for sanitary purposes and sewage disposal, as authorized by Section 5, (1), Chapter 719, Acts of 1913	30,000 00
Building Loans, serial coupon bonds, payable in one to twenty years, at an annual interest of four per cent.	
(a) For the purpose of constructing an addition to the City Home and restoring part of building damaged by fire in December, 1914	55,000 00
(b) For the cost of the original equipment, installing and furnishing new fire alarm apparatus at Engine House in Inman Square	25,000 00
(c) For the purpose of acquiring land and construction of building of Cambridge City Hospital including cost of original equipment and furnishings. All of which are authorized by Section 5, (3) Chapter 719, Acts of 1913	40,000 00
Amount carried forward	$370,000 00

City Funded Debt—Continued

Amount brought forward	$370,000 00
Schoolhouse Loan, serial coupon bonds, payable in one to twenty years, at an annual interest of four per cent. For the purpose of constructing an addition to the Agassiz Schoolhouse, including the cost of the original equipment and furnishings; such addition increases the floor space of said building, as authorized by Section 5 (4) Chapter 719, Acts of 1913	10,000 00
Street Loans, serial coupon bonds, payable in one to five years, at an annual interest of four per cent. For the purpose of constructing with Macadam pavement the following streets:	
(a) Lawn Street, Putnam Avenue and Washburn Avenue	2,500 00
(b) Cedar, Windsor, Chestnut, Garden, Lowell Streets.	17,000 00
(c) Windsor Street	2,500 00
(d) Edgestones and sidewalks	7,500 00
Street Loans, serial coupon bonds, payable in one to ten years, at an annual interest of four per cent. For the purpose of constructing permanent pavement for the following purposes:	
(a) Land damage	6,000 00
(b) Munroe Street	7,000 00
(c) Massachusetts Ave., Bigelow St. to Quincy St.	50,000 00
(d) Land damage	5,000 00
(e) Huron Avenue	60,000 00
(f) Sands, Akron and Hingham Streets.	7,500 00
(g) Boylston Street	12,500 00
	$557,500 00

The following matured bonds have been paid:

Building Loan, registered bonds, issued Oct. 1, 1895, at an annual interest of four per cent.	$25,000 00	
Schoolhouse Loan, registered bond, issued Oct. 1, 1895, at an annual interest of four per cent.	35,000 00	
Street Loan, registered bond, issued Oct. 1, 1895, at an annual interest of four per cent.	60,000 00	
		120,000 00
		$437,500 00
Serial bonds have matured and been paid		62,200 00
Net increase in debt, 1915-16		$375,300 00

City Funded Debt—Continued

The following is a statement of the total funded City Debt, with the rates of interest thereon:

HARVARD BRIDGE LOAN.

Date of Issue.	Rate of Interest.	When Due.	Amount.	Total.
Oct. 1, 1887 R.....	4 per cent.—30 yrs.	Oct 1, 1917.. ...	$10,000 00	
July 1, 1888 C.....	4 " —30 "	July 1, 1918.. ...	100,000 00	
Sept. 1, 1888 C.....	4 " —30 "	Sept. 1, 1918.. ...	100,000 00	
Mar. 1, 1889 C.....	4 " —30 "	Mar. 1, 1919.. ...	115,000 00	
Nov. 1, 1890 R.....	4 " —30 "	Nov. 1, 1920.. ...	5,000 00	
July 1, 1891 R. & C.	4 " —30 "	July 1, 1921.. ...	60,000 00	
Aug. 1, 1893 C.....	4 " —30 "	Aug. 1, 1923.. ...	10,000 00	$400,000 00

CAMBRIDGE BRIDGE LOAN.

July 1, 1899 R.....	3½ per cent.—40 yrs.	July 1, 1939.. ...	$50,000 00	
July 2, 1900 R.....	3½ " —40 "	July 2, 1940.. ...	100,000 00	
Feb. 1, 1901 R.....	3 " —40 "	Feb. 1, 1941.. ...	100,000 00	
Nov. 1, 1901 R.....	3½ " —40 "	Nov. 1, 1941.. ...	100,000 00	
Aug. 1, 1902 R. & C.	3½ " —40 "	Aug. 1, 1942.. ...	100,000 00	
Jan. 1, 1903 R.....	3½ " —40 "	Jan. 1, 1943.. ...	50,000 00	
Apr. 1, 1903 R.....	3½ " —40 "	Apr. 1, 1943.. ...	50,000 00	
Aug. 1, 1903 C.....	3½ " —40 "	Aug. 1, 1943.. ...	50,000 00	
Jan. 1, 1904 R.....	3½ " —40 "	Jan. 1, 1944.. ...	100,000 00	
May 1, 1904 R. & C.	3½ " —40 "	May 1, 1944.. ...	200,000 00	
Aug. 1, 1904 R.....	3½ " —40 "	Aug. 1, 1944.. ...	100,000 00	
Sept. 1, 1904 R.....	3½ " —40 "	Sept. 1, 1944.. ...	50,000 00	
May 1, 1905 R.....	3½ " —40 "	May 1, 1944.. ...	150,000 00	
Dec. 1, 1905 R.....	3½ " —40 "	Dec. 1, 1945.. ...	100,000 00	
Aug. 1, 1906 R.....	4 " —40 "	Aug. 1, 1946.. ...	150,000 00	
Jan. 1, 1907 R.....	4 " —40 "	Jan. 1, 1947.. ...	50,000 00	
July 1, 1907 C.....	4 " —40 "	July 1, 1947.. ...	40,000 00	
Oct. 1, 1907 C.....	4 " —40 "	Oct. 1, 1947.. ...	15,000 00	
Aug. 1, 1908 R.....	4 " —40 "	Aug. 1, 1948.....	45,000 00	
July 1, 1910 R.....	4 " —40 "	July 1, 1950.. ..	20,000 00	
Dec. 1, 1911 C.....	3½ " —40 "	Dec. 1, 1951.....	10,000 00	
Mar. 1, 1912 C.....	3½ " —40 "	Mar. 1, 1952.....	10,000 00	$1,640,000 00

BROOKLINE BRIDGE LOAN.

Jan. 1, 1906 R.....	3½ per cent.—40 yrs.	Jan. 1, 1946.. ...	$20,000 00	
Sept. 1, 1906 R.....	4 " —40 "	Sept. 1, 1946.. ...	5,000 00	$25,000 00

COMMERCIAL AVENUE BRIDGE.

Aug. 1, 1906 R.....	4 per cent.—40 yrs.	Aug. 1, 1946.. ...		$50,000 00

BUILDING LOAN.

July 1, 1896 R.....	4 per cent.—20 yrs.	July 1, 1916.. ...	$60,000 00	
Apr. 1, 1903 R.....	3½ " —20 "	Apr. 1, 1923.. ...	3,000 00	
Apr. 1, 1904 R.....	3½ " —20 "	Apr. 1, 1924.. ...	25,000 00	
May 1, 1904 R.....	3½ " —20 "	May 1, 1924.. ...	5,000 00	
Sept. 1, 1907 R.....	4 " —20 "	Sept. 1, 1927.. ...	30,000 00	$123,000 00

Amount carried forward $2,238,000 00

City Funded Debt—Continued

Amount brought forward $2,238,000 00

CAMBRIDGE BRIDGE SPECIAL LOAN.
(Charles River Dam.)

May 1, 1904 R.....	3½ per cent.—30 yrs.	May 1, 1934.....		$28,000 00

CITY LOAN.

July 1, 1910 R.....	4 per cent.—10 yrs.	July 1, 1920.....	$8,000 00	
Jan. 1, 1908 R.....	4 " —10 "	Jan. 1, 1918.....	10,000 00	
June 1, 1908 R.....	4 " —10 "	June 1, 1918.....	30,000 00	
Aug. 1, 1908 R.....	4 " —10 "	Aug. 1, 1918.....	7,000 00	
Mar. 1, 1912 C.....	3½ " —10 "	Mar. 1, 1922.....	15,500 00	$70,500 00

CITY OF CAMBRIDGE, ACTS OF 1908—LOAN.

May 1, 1908 R. & C.	4 per cent.—10 yrs.	May 1, 1918.....		$400,000 00

HOSPITAL LOAN.

July 1, 1902 R.....	3½ per cent.—20 yrs.	July 1, 1922.....	$6,000 00	
Aug. 1, 1908 R.....	4 " —20 "	Aug. 1, 1928.....	20,000 00	
July 1, 1910 C.....	4 " —20 "	July 1, 1930.....	95,000 00	
Dec. 1, 1911 R.....	3½ " —20 "	Dec. 1, 1931.....	4,000 00	
Mar. 1, 1912 C.....	3½ " —20 "	Mar. 1, 1932.....	25,000 00	$150,000 00

METROPOLITAN PARK ASSESSMENT LOAN.

Aug. 1, 1902 R.....	3½ per cent.—30 yrs.	Aug. 1, 1932.....		$46,000 00

PARK LOAN.

Feb. 1, 1894 R. & C.	4 per cent.—30 yrs.	Feb. 1, 1924.....	$360,000 00	
Aug. 1, 1895 R.....	4 " —40 "	Aug. 1, 1935.....	100,000 00	
Feb. 1, 1896 R.....	4 " —40 "	Feb. 1, 1936.....	100,000 00	
Aug. 1, 1896 R.....	4 " —30 "	Aug. 1, 1926.....	100,000 00	
Oct. 1, 1896 R.....	4 " —30 "	Oct. 1, 1926.....	40,000 00	
Sept. 1, 1897 R.....	3½ " —40 "	Sept. 1, 1937.....	100,000 00	
Nov. 1, 1897 R.....	3½ " —40 "	Nov. 1, 1937.....	50,000 00	
June 1, 1898 R.....	3½ " —40 "	June 1, 1938.....	50,000 00	
Aug. 1, 1898 R.....	3½ " —40 "	Aug. 1, 1938.....	100,000 00	
Aug. 1, 1899 R.....	3½ " —40 "	Aug. 1, 1939.....	100,000 00	
July 2, 1900 R.....	3½ " —40 "	July 2, 1940.....	50,000 00	
Nov. 1, 1900 R.....	3½ " —40 "	Nov. 1, 1940.....	50,000 00	
Oct. 1, 1901 R.....	3½ " —40 "	Oct. 1, 1942.....	100,000 00	
July 1, 1902 R.....	3½ " —40 "	July 1, 1942.....	48,000 00	
Apr. 1, 1903 R.....	3½ " —40 "	Apr. 1, 1943.....	50,000 00	
Sept. 1, 1904 R.....	3½ " —40 "	Sept. 1, 1944.....	25,000 00	
Nov. 1, 1904 R.....	3½ " —40 "	Nov. 1, 1944.....	6,000 00	
Apr. 1, 1905 R.....	3½ " —40 "	Apr. 1, 1945.....	5,000 00	
May 1, 1905 R.....	3½ " —40 "	May 1, 1945.....	45,000 00	
Aug. 1, 1905 R.....	3½ " —40 "	Aug. 1, 1945.....	5,000 00	
Sept. 1, 1906 R.....	4 " —40 "	Sept. 1, 1946.....	25,000 00	
Oct. 1, 1907 R.....	4 " —40 "	Oct. 1, 1947.....	10,000 00	
Aug. 1, 1908 R.....	4 " —40 "	Aug. 1, 1948.....	30,000 00	
Nov. 1, 1908 R.....	4 " —40 "	Nov. 1, 1948.....	12,000 00	
Jan. 1, 1910 R.....	3½ " —40 "	Jan. 1, 1950.....	8,800 00	
Mar. 1, 1911 R.....	3½ " —40 "	Mar. 1, 1951.....	17,000 00	
July 1, 1911 R.....	3½ " —40 "	July 1, 1951.....	7,000 00	
Dec. 1, 1911 R. & C.	3½ " —40 "	Dec. 1, 1951.....	6,200 00	$1,600,000 00

Amount carried forward $4,532,500 00

City Funded Debt—Continued

Amount brought forward $4,532,500 00

PUBLIC LIBRARY LOAN.

Nov. 1, 1901 R.....	3½	per cent.—20 yrs.	Nov. 1, 1921.. ...		$27,000 00

SCHOOLHOUSE LOAN.

July 1, 1896 R.....	4	per cent.—20 yrs.	July 1, 1916.. ...	$10,000 00	
Oct. 1, 1896 R.....	4	" —20 "	Oct. 1, 1916.. ...	33,000 00	
Oct. 1, 1896 R.....	4	" —20 "	Oct. 1, 1916.. ...	6,000 00	
July 1, 1897 R.....	3½	" —20 "	July 1, 1917.. ...	100,000 00	
May 2, 1898 R.....	3½	" —20 "	May 2, 1918.. ...	100,000 00	
June 1, 1898 R.....	3½	" —20 "	June 1, 1918.. ...	50,000 00	
Aug. 1, 1898 R.....	3½	" —20 "	Aug. 1, 1918.. ...	142,000 00	
July 1, 1899 R.....	3½	" —20 "	July 1, 1919.. ...	42,000 00	
Nov. 1, 1899 R.....	3½	" —20 "	Nov. 1, 1919.. ...	13,000 00	
July 1, 1901 R.....	3½	" —20 "	July 1, 1921.. ...	76,000 00	
July 1, 1902 R.....	3½	" —20 "	July 1, 1922.. ...	86,500 00	
Oct. 1, 1902 R.....	3½	" —20 "	Oct. 1, 1922.. ...	11,000 00	
Oct. 1, 1903 R.....	3½	" —20 "	Oct. 1, 1923.. ...	80,000 00	
Apr. 1, 1904 C.....	3½	" —20 "	Apr. 1, 1924.. ...	80,000 00	
Nov. 1, 1904 R.....	3½	" —20 "	Nov. 1, 1924.. ...	20,000 00	
Nov. 1, 1904 R.....	3½	" —20 "	Nov. 1, 1924.. ...	6,000 00	
May 1, 1905 R.....	3½	" —20 "	May 1, 1925.. ...	20,950 00	
Aug. 1, 1905 R.....	3½	" —20 "	Aug. 1, 1925.. ...	20,000 00	
Aug. 1, 1906 R.....	4	" —20 "	Aug. 1, 1926.. ...	33,000 00	
Nov. 1, 1906 R.....	4	" —20 "	Nov. 1, 1926.. ...	14,000 00	
Dec. 1, 1908 R.....	3½	" —20 "	Dec. 1, 1928.. ...	40,000 00	
Jan. 1, 1910 R. & C.	3½	" —20 "	Jan. 1, 1930.. ...	93,500 00	
July 1, 1910 R.....	4	" —20 "	July 1, 1930.. ...	120,000 00	
Mar. 1, 1911 R.....	3½	" —20 "	Mar. 1, 1931.. ...	5,000 00	
Mar. 1, 1912 C.....	3½	" —20 "	Mar. 1, 1932.. ...	2,500 00	
Feb. 1, 1913 C.....	3½	" —20 "	Feb. 1, 1933	5,000 00	$1,209,450 00

SEWER LOAN. (Construction General.)

Aug. 1, 1894 R. & C.	4	per cent.—30 yrs.	Aug. 1, 1924.. ...	$75,000 00	
Oct. 1, 1895 R.....	4	" —30 "	Oct. 1, 1925.. ...	60,000 00	
Oct. 1, 1896 R.....	4	" —20 "	Oct. 1, 1916.. ...	75,000 00	
Aug. 1, 1901 R.....	3½	" —30 "	Aug. 1, 1931.. ...	10,000 00	
Oct. 1, 1903 R.....	3½	" —30 "	Oct. 1, 1933.. ...	20,000 00	
May 1, 1904 R.....	3½	" —30 "	May 1, 1934.. ...	40,000 00	
Nov. 1, 1904 R.....	3½	" —30 "	Nov. 1, 1934.. ...	5,000 00	
May 1, 1905 R.....	3½	" —30 "	May 1, 1935.. ...	15,000 00	
May 1, 1906 R.....	4	" —30 "	May 1, 1936.. ...	10,000 00	
Apr. 1, 1907 R.....	4	" —30 "	Apr. 1, 1937.. ...	35,000 00	
Dec. 1, 1908 R.....	4	" —30 "	Dec. 1, 1938	5,000 00	
Jan. 1, 1910 R. & C.	3½	" —30 "	Jan. 1, 1940.....	23,000 00	
May 1, 1910 R.....	4	" —30 "	May 1, 1940.. ...	15,000 00	
Mar. 1, 1911 R.....	3½	" —30 "	Mar. 1, 1941.....	10,000 00	
July 1, 1911 R.....	3½	" —30 "	July 1, 1941.....	10,000 00	
Feb. 1, 1913 C.....	3½	" —30 "	Feb. 1, 1943	10,000 00	
July 1, 1913 C.....	4	" —30 "	July 1, 1943	20,000 00	
July 1, 1913 C.....	4	" —30 "	July 1, 1943	5,000 00	$443,000 00

SEWER LOAN. (Improved Sewerage.)

Nov. 1, 1899 R.....	3½	per cent.—30 yrs.	Nov. 1, 1929.. ...	$42,000 00	
July 2, 1900 R.....	3½	" —30 "	July 2, 1930.. ...	100,000 00	
Aug. 1, 1901 R.....	3½	" —30 "	Aug. 1, 1931.. ...	100,000 00	
Nov. 1, 1902 R.....	3½	" —30 "	Nov. 1, 1932.. ...	20,000 00	
Apr. 1, 1903 R.....	3½	" —30 "	Apr. 1, 1933.. ...	40,000 00	
May 1, 1904 R.....	3½	" —30 "	May 1, 1934.. ...	47,000 00	
May 1, 1905 R.....	3½	" —30 "	May 1, 1935.. ...	50,000 00	$399,000 00

Amount carried forward $6,610,950 00

City Funded Debt—Continued

Amount brought forward $6,610,950 00

SEWER LOAN. (Separate System of Drainage.)

May 1, 1904 R.....	3½ per cent.—30 yrs.	May 1, 1934.. ...	$25,000 00		
May 1, 1905 R.....	3½ " —30 "	May 1, 1935.. ...	25,000 00		
May 1, 1906 R.....	4 " —30 "	May 1, 1936.. ...	25,000 00		
Sept. 1, 1906 R.....	4 " —30 "	Sept. 1, 1936.. ...	25,000 00		
Apr. 1, 1907 R.....	4 " —30 "	Apr. 1, 1937.. ...	25,000 00		
Nov. 1, 1907 R.....	4 " —30 "	Nov. 1, 1937.. ...	10,000 00		
Aug. 1, 1908 R.....	4 " —30 "	Aug. 1, 1938.. ...	25,000 00		
Dec. 1, 1908 R.....	4 " —30 "	Dec. 1, 1938.. ...	12,000 00		
July 1, 1909 R.....	3½ " —30 "	July 1, 1939.....	2,000 00		
Jan. 1, 1910 C.....	3½ " —30 "	Jan. 1, 1940	23,000 00		
May 1, 1910 R.....	4 " —30 "	May 1, 1940.. ...	10,000 00		
July 1, 1910 R.....	4 " —30 "	July 1, 1940.....	15,000 00		
July 1, 1911 R.....	3½ " —30 "	Mar. 1, 1941.....	10,000 00		
Dec. 1, 1911 C.....	3½ " —30 "	Dec. 1, 1941.....	10,000 00		
Sept. 1, 1912 C.....	3½ " —30 "	Sept. 1, 1942	15,000 00		
Feb. 1, 1913 C.....	3½ " —30 "	Feb. 1, 1943	10,000 00		$267,000 00

STREET LOAN.

Oct. 1, 1896 R.....	4 per cent.—20 yrs.	Oct. 1, 1916.. ...	137,000 00		
May 2, 1898 R.....	3½ " —20 "	May 2, 1918.. ...	15,000 00		
Nov. 1, 1899 R.....	3½ " —20 "	Nov. 1, 1919.. ...	5,000 00		
Nov. 1, 1900 R.....	3½ " —20 "	Nov. 1, 1920.. ...	21,000 00		
July 1, 1901 R.....	3½ " —20 "	July 1, 1921.. ...	54,000 00		
July 1, 1902 R.....	3½ " —20 "	July 1, 1922.. ...	30,000 00		
Nov. 1, 1902 R.....	3½ " —20 "	Nov. 1, 1922.. ...	14,000 00		
Apr. 1, 1903 R.....	3½ " —20 "	Apr. 1, 1923.. ...	4,000 00		
Nov. 2, 1903 R.....	3½ " —20 "	Nov. 1, 1923.. ...	12,000 00		
Sept. 1, 1904 R.....	3½ " —20 "	Sept. 1, 1924.. ...	59,000 00		
Nov. 1, 1904 R.....	3½ " —20 "	Nov. 1, 1924.. ...	6,500 00		
May 1, 1905 R.....	3½ " —20 "	May 1, 1925.. ...	84,000 00		
Nov. 1, 1905 R.....	3½ " —20 "	Nov. 1, 1925.. ...	1,500 00		
May 1, 1906 R. & C.	4 " —20 "	May 1, 1926.. ...	100,000 00		
Aug. 1, 1906 R.....	4 " —20 "	Aug. 1, 1926.. ...	22,000 00		
Apr. 1, 1907 R.....	4 " —20 "	Apr. 1, 1927.. ...	40,000 00		
June 1, 1907 R.....	4 " —20 "	June 1, 1927.. ...	19,000 00		
Sept. 1, 1907 R.....	4 " —20 "	Sept. 1, 1927.. ...	25,000 00		
Nov. 1, 1907 R.....	4 " —20 "	Nov. 1, 1927.. ...	10,000 00		
Jan. 1, 1908 C.....	4 " —20 "	Jan. 1, 1928.. ...	34,000 00		
Aug. 1, 1908 R.....	4 " —20 "	Aug. 1, 1928.. ...	42,000 00		
Mar. 1, 1909 R.....	3½ " —20 "	Mar. 1, 1929.. ...	20,000 00		
Jan. 1, 1910 R.....	3½ " —10 "	Jan. 1, 1920	75,000 00		
Jan. 1, 1910 R. & C.	3½ " —20 "	Jan. 1, 1930	13,500 00		
July 1, 1910 R.....	4 " —20 "	July 1, 1930	12,000 00		
Mar. 1, 1911 R.....	3½ " —20 "	Mar. 1, 1931.. ...	27,000 00		
Mar. 1, 1911 R.....	3½ " —10 "	Mar. 1, 1921	50,800 00		
Mar. 1, 1911 R.....	4 " —10 "	Mar. 1, 1921.. ...	25,000 00		
July 1, 1911 R.....	3½ " —20 "	July 1, 1931	53,000 00		
July 1, 1911 C.....	3½ " —10 "	July 1, 1921	55,000 00		
Dec. 1, 1911 C.....	4 " —10 "	Dec. 1, 1921	17,000 00		
Sept. 1, 1912 C.....	4 " —10 "	Sept. 1, 1922	118,000 00		
Sept. 1, 1912 R.....	3½ " —10 "	Sept. 1, 1922	7,000 00		
Sept. 1, 1912 R. & C.	3½ " —20 "	Sept. 1, 1932	6,200 00		
Feb. 1, 1913 C.....	4 " —10 "	Feb. 1, 1923	13,000 00		
Feb. 1, 1913 C.....	3½ " —20 "	Feb. 1, 1933 .	6,250 00		
July 1, 1913 C.....	4 " —10 "	July 1, 1923.....	20,000 00		
July 1, 1913 C.....	4 " —10 "	July 1, 1923 .. .	37,800 00		
July 1, 1913 C.....	4 " —20 "	July 1, 1933.....	4,000 00		
Aug. 1, 1913 C.....	4 " —20 "	Aug. 1, 1933	3,700 00		
Aug. 1, 1913 C.....	4 " —20 "	Aug. 1, 1933	14,300 00		$1,313,550 00

Amount carried forward $8,191,500 00

City Funded Debt—Continued

Amount brought forward $8,191,500 00

LAND FOR PLAYGROUND LOAN

July 1, 1910 R.....	4 per cent.—30 yrs.	July 1, 1940	$50,000 00	
July 1 1911 R.....	3½ " —30 "	July 1, 1941	15,000 00	
Dec. 1, 1911 C.....	3½ " —30 "	Dec. 1, 1941	30,000 00	$95,000 00

PLAYGROUND CONSTRUCTION LOAN.

July 1, 1911 R.....	3½ per cent.—10 yrs.	July 1, 1921.....	$25,000 00	
Sept. 1, 1912 C.....	4 " —10 "	Sept. 1, 1922	35,000 00	$60,000 00

CHARLES RIVER BASIN ASSESSMENT LOAN.

Dec. 1, 1911 C.....	4 per cent.—10 yrs	Dec. 1, 1921.....		$60,000 00

CEMETERY LOAN.

July 1, 1911 R.....	3½ per cent.—10 yrs.	July 1, 1921.....		$8,000 00

MUNICIPAL LOAN

Feb. 1, 1913 C.....	4 per cent.—10 yrs.	Feb. 1, 1923	$39,800 00	
July 1, 1913 C.....	4 " —10 "	July 1, 1923.....	25,000 00	$64,800 00

Total Funded Debt $8,479,300 00

SERIAL LOANS

Inside Debt Limit

Street Loans, due 1916 to 1935.....	$492,200 00	
School House Loans, due 1916 to 1936.....	130,250 00	
Building Loans, due 1916 to 1936.....	164,000 00	
Sewer Construction Loans, due 1916 to 1946.....	35,000 00	
School Teachers' Salary, 1916 to 1919.....	15,000 00	
City Loans, due 1916 to 1924.....	8,000 00	
		$844,450 00

Outside Debt Limit

Playground Loans, due 1916 to 1946.....	$25,000 00	
Sewer Separate System, due 1916 to 1946.....	58,500 00	
Hospital Loans, due 1916 to 1936.....	147,000 00	
Bridge Loans, due 1916 to 1946.....	60,000 00	
Park Loans, due 1916 to 1945.....	103,000 00	
		393,500 00

Total City Debt, March 31, 1916..... $9,717,250 00

City Funded Debt—Continued

SERIAL LOANS

Inside Debt Limit

Financial Year April 1 to March 31, in which loans are due	Street	School	Building	Sewer Con.	Teachers	City
1916-17	$56,400 00	$7,000 00	$11,500 00	$1,500 00	$5,000 00	$1,000 00
1917-18	56,400 00	7,000 00	11,500 00	1,500 00	5,000 00	1,000 00
1918-19	56,400 00	7,000 00	11,500 00	1,500 00	5,000 00	1,000 00
1919-20	56,400 00	7,000 00	11,500 00	1,500 00		1,000 00
1920-21	52,900 00	7,000 00	11,500 00	1,500 00		1,000 00
1921-22	46,500 00	7,000 00	11,500 00	1,500 00		1,000 00
1922-23	46,500 00	7,000 00	11,500 00	1,500 00		1,000 00
1923-24	45,200 00	7,000 00	11,500 00	1,500 00		1,000 00
1924-25	39,200 00	7,000 00	6,000 00	1,500 00		
1925-26	16,700 00	7,000 00	6,000 00	1,500 00		
1926-27	2,400 00	7,000 00	6,000 00	1,000 00		
1927-28	2,400 00	7,000 00	6,000 00	1,000 00		
1928-29	2,400 00	7,000 00	6,000 00	1,000 00		
1929-30	2,400 00	7,000 00	6,000 00	1,000 00		
1930-31	2,400 00	7,000 00	6,000 00	1,000 00		
1931-32	2,400 00	7,000 00	6,000 00	1,000 00		
1932-33	2,400 00	7,000 00	6,000 00	1,000 00		
1933-34	2,400 00	7,000 00	6,000 00	1,000 00		
1934-35	400 00	3,750 00	6,000 00	1,000 00		
1935-36		500 00	6,000 00	1,000 00		
1936-37				1,000 00		
1937-38				1,000 00		
1938-39				1,000 00		
1939-40				1,000 00		
1940-41				1,000 00		
1941-42				1,000 00		
1942-43				1,000 00		
1943-44				1,000 00		
1944-45				1,000 00		
1945-46				1,000 00		
	$492,200 00	$130,250 00	$164,000 00	$35,000 00	$15,000 00	$8,000 00

City Funded Debt—Continued

SERIAL LOANS

Outside Debt Limit

Financial Year April 1 to March 31, in which loans are due	Playgrounds	Sewer S. S.	Hospital	Bridge	Park	Water
1916-17	$1,000 00	$2,000 00	$7,500 00	$2,000 00	$5,000 00	$20,500 00
1917-18	1,000 00	2,000 00	7,500 00	2,000 00	5,000 00	20,500 00
1918-19	1,000 00	2,000 00	7,500 00	2,000 00	5,000 00	20,500 00
1919-20	1,000 00	2,000 00	7,500 00	2,000 00	5,000 00	20,500 00
1920-21	1,000 00	2,000 00	7,500 00	2,000 00	5,000 00	20,500 00
1921-22	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	20,500 00
1922-23	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	20,500 00
1923-24	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	20,500 00
1924-25	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	20,500 00
1925-26	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	20,500 00
1926-27	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	8,000 00
1927-28	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	8,000 00
1928-29	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	8,000 00
1929-30	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	8,000 00
1930-31	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	7,000 00
1931-32	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	7,000 00
1932-33	1,000 00	2,000 00	7,500 00	2,000 00	4,000 00	7,000 00
1933-34	1,000 00	2,000 00	7,500 00	2,000 00	3,000 00	6,000 00
1934-35	1,000 00	2,000 00	7,500 00	2,000 00	3,000 00	3,500 00
1935-36	1,000 00	2,000 00	4,500 00	2,000 00	3,000 00	3,500 00
1936-37	500 00	2,000 00		2,000 00	3,000 00	2,500 00
1937-38	500 00	2,000 00		2,000 00	3,000 00	2,500 00
1938-39	500 00	2,000 00		2,000 00	3,000 00	1,500 00
1939-40	500 00	2,000 00		2,000 00	3,000 00	1,500 00
1940-41	500 00	2,000 00		2,000 00	3,000 00	1,500 00
1941-42	500 00	2,000 00		2,000 00	2,000 00	1,500 00
1942-43	500 00	2,000 00		2,000 00	2,000 00	1,500 00
1943-44	500 00	2,000 00		2,000 00	1,000 00	1,500 00
1944-45	500 00	2,000 00		2,000 00	1,000 00	1,500 00
1945-46	500 00	500 00		2,000 00		
	$25,000 00	$58,500 00	$147,000 00	$60,000 00	$103,000 00	$286,500 00

City Funded Debt—Continued

Following is a statement of the total Funded Water Debt of the City, with rates of interest thereon:

Date of Issue	Rate of Interest	Term	When due	Amount	Total
April 1, 1896 R.	4%	20 yrs.	April 1, 1916.	$100,000 00	
July 1, 1896 R.	4	20 "	July 1, 1916.	200,000 00	
Aug. 1, 1896 R.	4	20 "	Aug. 1, 1916.	100,000 00	
Oct. 1. 1896 R.	4	20 "	Oct. 1, 1916.	265,100 00	
April 1, 1897 R.	3½	20 "	April 1, 1917.	200,000 00	
July 1, 1897 R.	3½	20 "	July 1, 1917.	100,000 00	
Nov. 1, 1897 R.	3½	20 "	Nov. 1, 1917.	75,000 00	
Dec. 1. 1897 R.	3½	20 "	Dec. 1, 1917.	140,000 00	
May 2, 1898 R.	3½	20 "	May 2, 1918.	50,000 00	
June 1, 1898 R.	3½	20 "	June 1, 1918.	60,000 00	
Nov. 1. 1898 R.	3½	20 "	Nov. 1, 1918.	50,000 00	
Nov. 1, 1899 R.	3½	20 "	Nov. 1, 1919.	23,000 00	
Nov. 1, 1900 R.	3½	20 "	Nov. 1, 1920.	30,000 00	
July 1, 1901 R.	3½	20 "	July 1, 1921.	30,000 00	
July 1, 1902 R.	3½	20 "	July 1, 1922.	13,500 00	
Nov. 1, 1902 R.	3½	20 "	Nov. 1, 1922.	5,000 00	
April 1, 1894 C.	4	30 "	April 1, 1924.	300,000 00	
May 1. 1905 R.	3½	20 "	May 1, 1925.	46,000 00	
May 1, 1906 R. & C.	4	30 "	May 1. 1936.	280,000 00	
June 1, 1907 R.	4	30 "	June 1, 1937.	49,000 00	
July 1, 1907 C.	4	30 "	July 1, 1937.	25,000 00	
June 1, 1908 R.	4	20 "	June 1, 1928.	20,000 00	
Aug. 1, 1908 R.	4	30 "	Aug. 1. 1938.	17,000 00	
Jan. 1. 1910 C.	3½	20 "	Jan. 1, 1930.	5,000 00	
Feb. 1, 1910 R.	3½	20 "	Feb. 1, 1930.	5,000 00	
Mar. 1, 1911 R.	3½	30 "	Mar. 1, 1941.	16,500 00	
Dec. 1, 1911 C.	3½	30 "	Dec. 1, 1941.	10,000 00	$2,215,100 00

City Funded Debt—Concluded

CITY FUNDED DEBT

	April 1, 1915	April 1, 1916	Increase 1915-1916	Decrease 1915-16
Funded City Debt	$8,599,300 00	$8,479,300 00		$120,000 00
Sinking Funds for Funded City Debt	3,191,173 89	3,465,270 49	$274,096 60	
Net Funded City Debt	$5,408,126 11	$5,014,029 51		$394,096 60
Serial City Debt	742,650 00	1,237,950 00	$495,300 00	
Net City Debt	$6,150,776 11	$6,251,979 51	$101,203 40	
Funded Water Debt	$2,620,100 00	$2,220,100 00		$400,000 00
Sinking Funds for Funded Water Debt	1,900,141 93	1,681,685 47		218,456 46
Net Funded Water Debt	$719,958 07	$538,414 53		$181,543 54
Serial Water Debt	302,000 00	281,500 00		20,500 00
Net Water Debt	$1,021,958 07	$819,914 53		$202,043 54

RECAPITULATION

Amount of City Loans upon which interest is at 4 1-2 per cent.	$208,050 00	
Amount of City Loans upon which interest is at 4 per cent.	4,769,500 00	
Amount of City Loans upon which interest is at 3 1-2 per cent.	4,639,700 00	
Amount of City Loans upon which interest is at 3 per cent.	100,000 00	
Total Funded and Serial City Debt		$9,717,250 00
Amount of Water Loans upon which interest is at 4 per cent.	$1,475,600 00	
Amount of Water Loans upon which interest is at 3 1-2 per cent.	1,026,000 00	
Total Funded and Serial Water Debt		2,501,600 00
Total City and Water Debt		$12,218,850 00

Temporary Loans for the past ten years and interest upon the same:

Year	Temporary Loan	Interest paid upon Loan	Year	Temporary Loan	Interest paid upon Loan
1906	$413,000 00	$9,314 60	1911	$400,000 00	$3,927 62
1907	720,000 00	13,974 10	1912	500,000 00	5,426 03
1908	495,000 00	9,175 71	1913	400,000 00	7,432 77
1909	760,000 00	7,670 53	1914	1,145,000 00	13,518 04
1910	395,000 00	3,679 44	1915	1,650,000 00	15,398 66

ANNUITIES AND TRUST FUNDS

(Acts 1904. Chapter 322.)

AN ACT TO PROVIDE FOR THE AUDITING OF CERTAIN TRUST FUNDS AND ACCOUNTS

Be it enacted, etc., as follows:

Section 1. It shall be the duty of city and town auditors at least once every year, and so much oftener as they may deem it necessary, to audit the accounts of the trustees of any property, the principal or income of which, in whole or in part, was bequeathed or given in trust for the benefit of the inhabitants of the city or town or any part thereof, and to examine and estimate the funds, securities and evidences of property held by such trustees. City and town auditors shall include in their annual reports a report of such auditing and investigation; and if they discover any fraud or irregularity they shall immediately report the same to the mayor and treasurer of the city or to the selectmen and treasurer of the town.

Section 2. It shall be the duty of the trustees designated in Section one hereof to give city and town auditors free access to their accounts, funds, securities and evidences of property; and any such trustee who refuses to exhibit his trust accounts, funds, securities and evidences as aforesaid shall be subject to a fine of not less than fifty nor more than two hundred dollars.

Section 3. This act shall be construed as applying only to property held in trust for public uses. (*Approved May* 9, 1904.)

Under the provisions of the foregoing Act, I hereby certify that I have examined the accounts, vouchers and securities belonging to the Trust Funds held for public uses, and find them correct and in excellent condition.

Attest:

CHARLES H. THURSTON, *City Auditor.*

April 1, 1916.

ANNUITIES

	Original Gift.	Annual Payment
Daniel White Charity Annuity	$5,000	$300
Dowse In titute "	10,000	600
Sanders Temperance "	10,000	600
	$25,000	$1,500

DANIEL WHITE CHARITY ($10,360.00)

Established by Daniel White, of Charlestown, in his lifetime for the purchase and distribution of fuel among the deserving poor of Cambridge, his native city.

May 15, 1863, he appointed four trustees, with the Mayor of Cambridge, *ex officio*, to distribute not exceeding $300 per year. The trustees fill any vacancies in their number, in case of death, etc. Ex-Mayor J. Warren Merrill added a bequest in cash and stocks to the value of $5,360, thus making the principal $10,360. The present permanent members are George E. Saunders, Walter F. Earle and George H. Howard, and the fund is invested by the trustees.

Annuities—Continued

REPORT OF THE TREASURER OF THE DANIEL WHITE CHARITY FUND

Receipts:		
Amount of Fund, March 31, 1915		$10,977 29
Interest received on city notes	$500 00	
Interest received on bank balance	30 70	
Cash balance at beginning of year	617 29	
	$1,147 99	
Payments:		
Paid for safe deposit box	$5 00	
Paid for coal for poor	527 22	
Cash balance at close of year	615 77	
	$1,147 99	
Principal	$10,000 00	
Cash in principal	360 00	
Cash balance in bank Jan. 29, 1916	615 77	
	$10,975 77	
Amount of Fund March 31, 1916		$10,975 77

THE DOWSE INSTITUTE ($10,000.00)

The executors of Thomas Dowse, under a discretionary power in his will, gave to the city, on June 30, 1858, the sum of ten thousand dollars for an annual course of lectures, the city agreeing to pay to the trustees of said institute interest thereon at the rate of six per cent. per annum. The trustees consist of three permanent members, with the Mayor and the President of the City Council, for the time being. The original permanent members were appointed by the executors, and the board fills its own vacancies.

REPORT OF THE TREASURER OF THE DOWSE INSTITUTE FUND

Receipts:		
Bank balance, March 31, 1915		$535 14
Received from city as interest	$600 00	
Received from sale of tickets	163 33	
Received as interest on deposit with Cambridge Trust Co.	14 51	
		774 84
		$1,312 98
Payments:		
Y. M. C. A., for subscription	$75 00	
L. F. Weston, printing	12 00	
Cambridge Tribune, advertising	5 00	
Cambridge Chronicle, advertising	5 00	
City of Cambridge, License for 8 lectures	8 00	
B. W. Read, Lecture	50 00	
I. L. Winter, Lecture	50 00	
F. H. Weed, Lecture	25 00	
F. L. Buley, Lecture	50 00	
Amount carried forward	$280 00	

Annuities—Concluded

Amount brought forward	$280 00	
L. B. Allyn, Lecture	75 00	
Cambridge Social Union, Rent of Hall	160 00	
Lantern	11 50	
Postage	10 00	
Door Keeper and Ushers	35 00	
		571 50
Balance in bank March 31, 1916		741 48
		$1,312 98

THE SANDERS TEMPERANCE ANNUITY ($10,000)

This sum was given to the City by the will of Charles Sanders, of Cambridge, who died April 7, 1864, for the support of a missionary to promote the cause of temperance. The trustees consist of the Mayor and President of the City Council. The City pays a missionary $600 a year to carry out the provisions of the will.

THE HOPKINS FUND (£500)

Edward Hopkins died in London, England, in 1657 or 1658, leaving £500 to be used, upon the death of his widow to aid a college and school in New England. The Court of Chancery gave it to Harvard College and a school in Cambridge. One fourth of the net income is paid annually to the City for classical instruction in the Latin School. The trustees are a corporation established in Boston.

Treasurer's Report of Hopkins Fund

Amount on hand March 31, 1915		$1,829 08
Interest accumulations on deposit		58 59
Received from Treasurer of Hopkins Fund		806 71
		$2,694 38
Paid to Stephen A. Freeman, Prize	$75 00	
Paid to Hester C. Sharkey, Prize	75 00	
Paid to John Fahey, Prize	100 00	
Paid to Mary Haley, Prize	100 00	
Paid to Jessie McG. Norman, Prize	75 00	
Paid to Ralph A. Cartwright, Prize	75 00	
Paid to School Department, tuition	40 00	
Paid to School Department, supplies	344 61	
		884 61
Balance, March 31, 1916, Harvard Trust Company		$1,809 77

HENRY F. LEHAN, *City Treasurer*...

March 31, 1916.

THE TRUST FUNDS

CEMETERY FUND FOR PERPETUAL CARE OF LOTS

Held in trust by the City comprising sums received from the proprietors of lots in Cambridge Cemetery for the perpetual care of their lots therein. The fund is almost all invested in City of Cambridge registered bonds. First established in 1860.

Amount of Bonds in fund, March 31, 1915	$108,150 00	
Amount of Bonds purchased to March 31, 1916	2,000 00	
Amount of Bonds in fund, March 31, 1916		$110.150 00

CASH ACCOUNT

DR.

Cash on hand, March 31, 1915	$499 19	
Received from proprietors of lots for perpetual care	3,434 51	
Received from interest on investments	4,175 48	
		$8,109 18

CR.

Cash paid for bonds	$1,849 25	
Paid for interest accrued on bonds purchased	21 00	
Paid to Cemetery Trustees for care of lots in perpetual care	4,154 48	
On hand March 31, 1916	2,084 45	
		$8,109 18
Registered Bonds	$110,150 00	
Deposit in Harvard Trust Co	2,084 45	
		112,234 45
Fund for Perpetual Care	$111,842 45	
Fund for Deeds in Trust	392 00	
		112,234 45

CEMETERY FUND: DEEDS IN TRUST

Held in trust by the City, comprising sums received from the proprietors of lots in Cambridge Cemetery for the furtherance of certain trusts mentioned in conveyances of lots to the City in trust.

The fund amounts to $392.00, and was first established March 11, 1901.

Included in investment of Perpetual Care Fund	$392 00

THE BRIDGE CHARITABLE FUND

Founded by the late Levi Bridge of Cambridge, in his lifetime, by a deed of trust dated August 12, 1875, and upon his death (April 15, 1876), the amount of said fund came into the hands of the City. In October, 1877, Mr. Samuel F. Bridge, a relative of the founder, gave a sum sufficient to double the amount. When the fund reached two thousand dollars, one third of the income to be added to the principal and two thirds paid over annually to the Overseers of the Poor, to be expended for the deserving poor of Cambridge.

The Trust Funds—Continued

The trustees consist of the Mayor and the President of the City Council.

The City Treasurer is custodian of the Fund.

Amount of Fund, March 31, 1915		$2,614 90
Interest to March 31, 1916	$105 62	
Two-thirds income paid to Overseers of the Poor	70 42	
One-third income paid to Fund		35 20
Balance deposited in Central Trust Company, March 31, 1916		$2,650 19

Two-thirds of the income amounting to $70.42 was paid to the Overseers of the Poor, and the balance, $35.20, was added to the principal, leaving a balance of $2,650.19 in the hands of the City Treasurer. Said sum is deposited in the Central Trust Company and bears interest at the rate of four per cent. per annum.

HENRY F. LEHAN, *City Treasurer.*

March 31, 1916.

CITIZENS' SUBSCRIPTION FUND ($5,500)

In 1889, a committee of citizens raised by subscription a fund to enable the trustees to purchase a large number of books at the time the new public library building was opened. The unexpended balance (fifty-five hundred dollars), was invested and the income is used for the same purpose.

Balance in bank, March 31, 1915	$294 75	
Receipts	305 87	
		$600 63
Expenditures		22 79
Balance on deposit, March 31, 1916		$577 84
The principal is invested in Cambridge Sewer Bonds, Nos. 47 and 1150		$5,500 00

CUMMINGS LEGACY ($2,000)

As provided in the will of Daniel P. Cummings, who died May 3, 1889, the sum of two thousand dollars was paid over to the trustees of the Public Library, the annual income to be expended by said trustees in the purchase of non-sectarian books for the Public Library.

Balance on deposit, March 31, 1915	$178 35	
Receipts	70 00	
Balance on deposit, March 31, 1916		$248 35
The principal is invested in Cambridge Sewer Bond, No. 1102.		$2,000 00

FAY LEGACY ($1,000)

In accordance with the provisions of the will of Isaac Fay, who died December 29, 1872, the sum of one thousand dollars was paid to the trustees of the Dana Library (now the Cambridge Public Library) for the time being,

The Trust Funds—Continued

"which sum shall be safely invested by said trustees, and the income thereof appropriated to the purchase of books for said Library."

Balance on deposit, March 31, 1915	$67 03	
Receipts	35 00	
Balance on deposit, March 31, 1916		$102 03
The principal is invested in a Cambridge school house bond No. 254		$1,000 00

WILLIAM E. SAUNDERS FUND ($7,564.87)

In accordance with the will of Abigail L. Prentiss, the residue, after the termination of certain annuities, was paid to the Trustees of the Cambridge Public Library, the annual income to be used for the purchase of books to be placed in the William E. Sanders Alcove, and for the care of same. This alcove is assigned to books on geneaology.

Balance on deposit, March 31, 1915	$180 78	
Receipts to March 31, 1916	245 00	
		$425 78
Expenditures		118 72
Balance on deposit, March 31, 1916		$307 06
The principal is invested in Cambridge Bonds, Nos. 544 and 545		$7,000 00
Deposited in Cambridgeport Savings Bank		564 87
		$7,564 87

JAMES A. WOOLSON FUND ($5,000)

By the request of James A. Woolson, the sum of five thousand dollars was paid to the Trustees of the Cambridge Public Library, the income only to be used for the purchase of books. In each book purchased there is placed an appropriate book-plate.

Balance on deposit, March 31, 1915	$233 03	
Receipts to March 31, 1916	175 00	
		$408 03
Expenditures		153 93
Balance on deposit, March 31, 1916		$254 90
The principal is invested in Cambridge Bond No. 701		$5,000 00

EDWARD H. WHORF FUND

Balance on deposit, March 31, 1915	$162 81	
Receipts to March 31, 1916	120 00	
		$282 81
Expenditures		7 00
Balance on deposit, March 31, 1916		$275 81
The principal is invested in three American Telephone and Telegraph Company bonds, Nos. 9755, 9756, and 9757		$3,000 00

The Trust Funds—Continued

WILLIAM PENN HARDING FUND
(Library Report)

Balance on hand, March 31, 1915	$60 96	
Receipts to March 31, 1916	45 49	
		$106 45
Expenditures		45 20
Balance on hand, March 31, 1916		$61 25
Principal deposited in East Cambridge Savings Bank		$1,000 00

WILLIAM PENN HARDING FUND

By a bequest to the City, on behalf of the Public Library, the sum of $1,000, in accordance with the will of William Penn Harding, the money was turned over to the City Treasurer. The annual income shall be paid to the Trustees of the Public Library and is to be expended in the purchase of recent books on science, art or travel of a popular and instructive character. Said bequest shall be designated the William Penn Harding Fund, which designation shall be printed in all books so purchased.

Treasurer's Report of the William Penn Harding Fund

March 31, 1914—Deposited in East Cambridge Savings Bank	$1,000 00
March 31, 1916—The interest on said fund, amounting to $45.49 was paid to the trustees of the Public Library in accordance with the provisions of the gift.	
The passbook of the East Cambridge Savings Bank shows that on March 31, 1916, the amount on deposit was	$1,000 00

HENRY F. LEHAN, *City Treasurer.*

March 31, 1916.

MEHITABLE C. C. WILSON FUND

May 16, 1914—Bequest deposited in Harvard Trust Co	$567 91
May 1. 1915—Interest on deposit	22 92
Balance on deposit, March 31, 1916	$590 83

SARAH E. RUSSELL FUND ($814.41)

As provided in the will of Sarah E. Russell, of Cambridge, who died October 6, 1897, the sum of eight hundred fourteen dollars and forty-one cents was paid to the City by the executors of the will, "the income therefrom to be annually expended in or towards providing a Christmas tree or Christmas gifts and entertainments for the inmates at the time, of the Cambridge Alsmouse." Mrs. Russell was the widow of Hon. Charles Theodore Russell, and the mother of Hon. William E. Russell, both of whom served the City as Mayor.

Amount of deposit, March 31, 1915	$814 41
Interest to December 1, 1915	32 38
	$847 29
Amount paid as per provision of bequest, December 23, 1915	32 88
Balance in Cambridgeport Savings Bank, March 31, 1916	$814 41

The Trust Funds—Concluded

TREASURER'S REPORT OF THE SARAH E. RUSSELL FUND

The amount of the bequest was $814.41, and was deposited in the Cambridgeport Savings Bank, where it now remains.

The interest accumulations, amounting to $32.88 for the year, have been paid to Mr. C. E. Goodrow, Superintendent of the City Home, and were used as stipulated in the will of Mrs. Russell.

HENRY F. LEHAN, *City Treasurer.*

March 31, 1916.

JOHN WESLEY FREESE FUND ($92.96)

This is a fund of $89.36 bequeathed by the late John Wesley Freese in November, 1914. This sum is to accumulate for twenty years, after which time not more than three-fourths of the annual income to be expended for books or works of art for the Houghton School.

TREASURER'S REPORT, JOHN WESLEY FREESE FUND

Nov., 1914—Deposit Cambridgeport Savings Bank.....	$89 36
March 31, 1916—Interest on fund to date.....	3 60
March 31, 1916—Amount deposited in bank.....	$92 96

TAILINGS ACCOUNT TRUST FUND

This fund consists of various amounts of money due on payrolls and sundry drafts, which have remained in the hands of the Treasurer awaiting payment to persons properly entitled to the same.

The amount of the Fund, March 31, 1915.....	$4,467 36	
Interest on Deposit to March 31, 1916.....	110 45	
March 31, 1916—Balance on deposit, Harvard Trust Company...		$4,577 81

HENRY F. LEHAN, *City Treasurer.*

CITY AUDITOR'S STATEMENT OF PROVISIONS OF SECTION 1, CHAPTER 322 ACTS OF 1904

Under the provisions of Section 1, Chapter 322, Acts of 1904, I hereby certify that I have this day examined the accounts, vouchers and securities belonging to the within Trust Funds, held for public use and find them to be correct and in excellent condition.

Attest:

CHARLES H. THURSTON, *City Auditor*

March 31, 1916.

TAXES

The amount of taxes assessed by the Board of Assessors on the real and personal estates and polls of Cambridge, April 1, 1916, was as follows:

Valuation of real estate		$107,014,000 00
Valuation of personal estate		23,096,810 00
		$130,110 810 00
Assessed at $23.00 per $1,000		$2,992,548 63
28,858 polls at $2.00		57,716 00
Bank stock (non-resident separately assessed)		2,147 97
		$3,052,412 60
The Tax is divided as follows:		
For city purposes*		$2,400,679 99
Non-resident bank stock assessed separately		2,147 97
Overlay		34,958 67
		$2,437,786 63
County Assessments		133,270 62
State Assessments:		
State	$256,327 50	
Sewerage	112,675 22	
Parks	63,808 80	
Charles River Basin	17,029 25	
Alewife Brook	5,028 52	
Smoke Nuisance	476 58	
Charles River Basin Account Bridge	25,109 38	
Prevention of Fires	900 10	
		481,355 35
		$3,052,412 60
Increase in real estate valuation		$2,127,600 00
Increase in personal valuation		41,815 00
		$2,169,415 00
Increase in number of polls since last year, 238 polls at $2		476 00
Gain in valuation since last year		$2,169,891 00
Number of houses assessed		14,471 1-3
Number of horses assessed		3,302
Number of cows assessed		51
Number of bulls asssessed		1

*To meet the City expenses the income from various departments is added to this sum raised by taxation.

Statement of the valuations of the personal property and real estate of the City of Cambridge, with the number of polls, dwellings, and rate of taxation for the past twenty years:

Year	Polls	Personal	Real Estate	Total	Dwellings	Rate per $1,000
1896	23,847	15,914,995	67,835,100	83,750,095	12,723	15 10
1897	24,407	16,302,545	70,339,200	86,641,745	13,217	17 50
1898	24,628	16,642,990	72,908,100	89,551,090	13,473	16 40
1899	24,995	16,991,995	74,550,800	91,542,795	13,588	17 10
1900	25,117	17,865,230	76,600,700	94,465,930	13,713	16 90
1901	25,306	17,648,575	78,568,300	96,216,875	13,846½	16 90
1902	25,680	17,742,985	80,396,900	98,139,885	13,889 2-3	18 30
1903	25,749	17,708,510	87,063,400	104,771,910	13,833	16 90
1904	25,968	17,346,500	87,481,100	104,827,600	13,858	17 90
1905	26,696	15,994,100	87,851,500	103,845,600	13,893	19 00
1906	26,434	16,550,235	88,603,000	105,153,235	13,937½	18 60
1907	26,064	17,773,990	89,235,300	107,009,290	14,018 1-5	18 80
1908	25,815	16,854,775	90,026,300	106,881,075	13,969 5-6	20 10
1909	25,898	16,118,635	90,839,500	106,958,135	14,010 5-6	21 00
1910	26,660	18,774,935	92,021,800	110,796,735	13,150 1-3	20 10
1911	26,810	17,409,635	94,171,600	111,581,235	14,131 1-3	19 90
1912	28,110	18,621,000	97,326,300	115,947,300	14,191	20 40
1913	28,297	19,977,190	101,155,100	121,132,290	14,283 1-3	21 40
1914	28,620	23,054,995	104,836,400	127,891,395	14,508 7-12	21 40
1915	28,858	23,096,810	107,014,000	130,110,810	14,471 1-3	23 00

Abatements upon taxes for the past twenty years, and amount of tax uncollected March 31, 1916:

Year	Total Tax	Total Abatements	Amount of Tax uncollected March 31, 1916
1896	1,321,932 65	17,922 54	.....
1897	1,574,047 50	22,081 73	.....
1898	1,527,863 88	27,566 98	.....
1899	1,623,592 35	35,317 61	.....
1900	1,654,588 36	33,005 90	.....
1901	1,683,690 84	24,390 38	.....
1902	1,854,557 82	30,013 44	.....
1903	1,828,456 95	41,525 33	.....
1904	1,934,772 56	50,088 47	.....
1905	2,031,457 20	48,886 73	.....
1906	2,012,805 80	61,528 79	.....
1907	2,038,170 44	63,481 85	.....
1908	2,204,263 62	53,504 40	.....
1909	2,302,311 40	41,954 80	.....
1910	2,283,435 10	38,962 37	.....
1911	2,274,086 57	30,028 37	23,746 76
1912	2,421,544 92	77,549 16	21,274 76
1913	2,527,692 72	60,449 85	27,947 06
1914	2,806,390 01	56,783 75	104,435 23
1915	3,072,471 19	38,580 80	468,620 43

On March 31, 1916, the Assessors, upon certificate of Collector, abated as uncollectable:

Taxes, 1909	$26,966 70
Taxes, 1910	26,532 22
	$53,498 92

ABATEMENT CERTIFICATES ALLOWED BY BOARD OF ASSESSORS

	Real	Personal	Polls	Collectors	Refunds	Totals
Taxes, 1909				$41 91		$41 91
Taxes, 1911				37 75		37 75
Taxes, 1912				3 00		3 00
Taxes, 1913	$7,311 22	$6 12	$2 00	575 25	$2,389 60	10,284 19
Taxes, 1914	12,761 47	1,095 82	162 00	2,556 76		16,576 05
Taxes, 1915	21,100 30	14,853 80	880 00	1,003 80	742 90	38,580 80
Street Watering						123 30
Moth Assessments..						10 00
	$41,172 99	$15,955 74	$1,044 00	$4,218 47	$3,132 50	$65,657 00

The valuation of estates in this City for the years 1913, 1914, and 1915 are the same as originally made by the Board of Assessors during those years, and the same figures were reported by that Board to the Tax Commissioners for each of the years respectively. These valuations were subject to changes in each year, after such report was made, as shown by the following:

Net valuations of estates in the City of Cambridge, for the past three years, after adding the amounts of all supplementary warrants and deducting therefrom all abatements up to and including December 31, 1915:

Year	Total Valuation	Abatements	Net Valuation
1913	$121,988,690	$1,664,092	**$120,334,598**
1914	128,373,795	1,711,042	**126,662,753**
1915	130,997.710	998,500	**129,999,210**
Totals	$381,370, 195	$4,373,634	**$376,996,561**

Showing an average valuation for the years 1913, 1914, 1915 of **$125,665,520 33**

BORROWING CAPACITY

The average net valuation of the City of Cambridge for the years 1913, 1914 and 1915 ..... $125,665,520 33

This sum represents the amount upon which the limit of municipal indebtedness is fixed under the provisions of Section 12 of Chapter 719 of the Acts of 1913.

2 1-2 per cent. on same is		.....	$3,141,638 00
The entire City Debt is		$9,717,250 00	
Of this amount the following loans are not within the legal debt limit, being exempted by the following Acts of the Legislature:			
Cambridge Bridge Loan			
Acts of 1898, Chapter 467, Funded	$1,640,000 00		
Acts of 1898, Chapter 467, Serial.	60,000 00		
Brookline Bridge Approach:			
Acts of 1898, Chapter 467, Funded	25,000 00		
Acts of 1904, Chapter 391, Funded			
Commercial Avenue Bridge:			
Acts of 1903, Chapter 372, Funded	50,000 00		
Cambridge Bridge Special Loan: Charles River Dam:			
Acts of 1904, Chapter 158, Funded	28,000 00		
Harvard Bridge Loan:			
Acts of 1887, Chapter 282, Funded Acts of 1888, Chapter 73, Funded Acts of 1891, Chapter 316, Funded	400,000 00		
Park Loan:			
Acts of 1892, Chapter 341, Funded Acts of 1893, Chapter 337, Funded Acts of 1894, Chapter 89, Funded Acts of 1897, Chapter 469, Funded Acts of 1899, Chapter 221, Funded Acts of 1912, Chapter 578, Funded	1,600,000 00		
Acts of 1912, Chapter 578, Serial.	103,000 00		
Sewer Loan:			
Acts of 1899, Chapter 473, Funded	399,000 00		
Acts of 1899, Chapter 189, Funded			
Acts of 1903, Chapter 383, Funded .	267,000 00		
Acts of 1903, Chapter 383, Serial.	58,500 00		
Hospital Loan:			
Acts of 1895, Chapter 99, Funded	150,000 00		
Cambridge City Hospital Loan:			
Acts of 1911, Chapter 545, Serial.	147,000 00		
Amounts carried forward.....	$4,927,500 00	$9,717,250 00	$3,141,638 00

BORROWING CAPACITY—Concluded

Amounts brought forward	$4,927,500 00	$9,717,250 00	$3,141,638 00
Metropolitan Park Assessment: Acts of 1902, Chapter 325, Funded	46,000 00		
City of Cambridge Loan: Acts of 1908, Chapter 367, Funded	400,000 00		
Playgrounds Loan: R. L., Chapter 27, Sect. 11, Funded	120,000 00		
Charles River Basin Assessment: Acts of 1911, Chapter 463, Funded	60,000 00		
Total Outside Debt Limit		$5,553,500 00	
The entire Sinking Fund is	$3,465,270 49	$4,163,750 00	
Of this amount there should be deducted on account of Exempted Loans as follows:			
Cambridge Bridge	$266,153 14		
Harvard Bridge	357,150 46		
Brookline Bridge	3,459 26		
Commercial Ave. Bridge	6,986 58		
Park	600,634 98		
Improved Sewage	150,314 09		
Hospital	33,417 84		
Metropolitan Park Assessment	16,417 16		
Cambridge Bridge Special	8,171 66		
Separate System of Drainage	47,510 60		
City of Cambridge, Acts 1908	282,785 07		
Cambridge Bridge, B. E. R.	257,500 00		
Playgrounds	11,801 28		
Charles River Basin	22,917 90		
Sinking Fund of Exempted Loans	$2,065,224 02		
Leaving Sinking for General Loans		$1,400,046 47	
Net City Debt, March 31, 1916			$2,763,703 53
Borrowing capacity for city purposes			$377,934 43

1915 Valuations and Tax Levy.

Books	Polls	Personal	Res. Banks	Personal with banks	Real Estate	Total without banks	Total with Banks
1	2488	$3,113,000		$3,113,000	$15,784,500	$18,897,500	$18,897,500
2	2463	3,108,900		3,108,900	11,859,900	14,968,800	14,968,800
3	2776	1,270,400		1,270,400	7,532,000	8,802,400	8,802,400
4	2690	2,692,400		2,692,400	9,180,500	11,872,900	11,872,900
5	2587	2,029,500		2,029,500	10,315,200	12,344,700	12,344,700
6	2813	1,906,600		1,906,600	8,348,000	10,254,600	10,254,600
7	2929	667,700		667,700	7,264,500	7,932,200	7,932,200
8	2612	2,091,100		2,091,100	8,414,500	10,505,600	10,505,600
9	2555	1,531,900		1,531,900	10,604,700	12,136,600	12,136,600
10	2699	1,690,800		1,690,800	8,202,000	9,892,800	9,892,800
11	2246	2,922,900	$71,610	2,994,510	9,508,200	12,431,100	12,502,710
	28858	$23,025,200	$71,610	$23,096,810	$107,014,000	$130,039,200	$120,110,810

Ward	Street Sprinkling	Moths
1.....	$3,752 24	$170 04
2.....	2,682 01	112 01
3.....	2,954 64	141 44
4.....	2,894 06	164 55
5.....	3,352 06	235 24
6.....	2,696 64	133 99
7.....	2,590 60	131 51
8.....	3,198 75	178 44
9.....	3,978 58	150 71
10.....	2,924 56	155 59
11.....	3,687 11	192 76
Total.....	$34,711 25	$1,766 28

WARRANTS

City	$2,400,679 99
County	133,270 62
State	256,327 50
Metropolitan Parks	63,808 80
Metropolitan Sewer	112,675 22
Prevention of Fires	900 10
Alewife Brook	5,028 52
Charles River Basin on Account of Bridge	25,109 38
Charles River Basin	17,029 25
Gas and Smoke	476 58
Total	$3,015,305 96
Overlay	34,958 67
Total	$3,050,264 63

Bank	Resident	Non-Resident
Lechmere.....	$71,610	$93,390

SCHEDULE B

No. IX

LIST OF CITY PROPERTY

AS FURNISHED BY

Executive Boards and Heads of Departments

IN

1916

LAW DEPARTMENT

LOCATED AT CITY HALL OFFICE

1 rolltop desk and chair	$25 00
Revised Laws, Public Statutes, etc	15 00

LOCATED IN OFFICE IN BOSTON, ROOMS 541-2 TREMONT BUILDING

1 Remington Premier typewriter	70 00
1 typewriter desk	10 00
1 blank filing cabinet	25 00
1 Yawman-Erbe filing cabinet	50 00
Massachusetts Digest, Dillon on Municipal Corporations, and other law books	175 00
1 sectional bookcase	22 00
	$392 00

PUBLIC PROPERTY DEPARTMENT

CITY BUILDINGS

	Feet of Land.	Purchase of Land.	Erection of Buildings.	Valuation of Land.	Valuation of Buildings.	Valuation of Furniture
City Hall	47,878	1888	1888	$95,000	$200,000	$34,800
Brattle Sq. Bldg.	16,153	1873	1874	24,000	60,000	2,500
Central Sq. Bldg.	13,028	1872	1873	10,500	50,000	2,436
Station 3	4,220	1862	1870	1,200	20,000	800
Station 4	6,316	1872	1873	5,000	5,300	300
				$135,700	$335,300	$40,836

Voting booth, corner Cambridge and Hampshire Streets	$500 00	
Five portable voting booths	2,500 00	
Voting compartments and fixtures (500)	2,500 00	
		$5,500 00

PERSONAL PROPERTY

1 Ford touring car and equipment	$400 00

PROPERTY IN USE BY THE POLICE DEPARTMENT

3	American flags	$20 00
3	Book cases	20 00
2	Bicycles	15 00
17	Blankets (ambulance)	17 00
1	Bertillon book	1 00
10	Beds and bedding	100 00
1	Camera and stand	85 00
2	Card indexes	75 00
1	Copy press	5 00
54	Chairs	54 00
7	Clocks	14 00
28	Cuspidors	14 00
1	Couch	5 00
7	Directories	31 50
1	Dictionary	4 00
157	Diaries	94 20
3	Electric desk lamps	15 00
1	Fingerprint book	1 00
40	Feet of hose	2 00
157	Fire alarm keys	39 15
2	Grain chests	10 00
5	Grappling irons	5 00
15	Galvanized ash cans	32 00
4	Harnesses	40 00
3	Horse blankets	3 00
3	Horses	600 00
6	Ice water tanks	42 00
15	Ink stands	5 00
1	Letter scale	1 00
4	Medicine cabinets	20 00
10	Mirrors	10 00
		$1,379 85

	Amount forwarded	$1,379 85
4	Maps	2 00
2	Motorcycles	100 00
1	Operating table & chair	25 00
4	Patrol wagons	1,400 00
1	Police van	100 00
1	Private telephone	200 00
6	Pair of handcuffs	18 00
1	Pair of legirons	5 00
6	Pails	1 50
157	Police belts	157 00
198	Police badges	148 50
157	Police clubs	78 50
157	Patrol box keys	39 15
1	Pulmotor	100 00
17	Roll top desks	255 00
1	Rubber pillow	1 50
4	Rugs	10 00
154	Revolvers	1,540 00
1	Rogues' Gallery (old)	50 00
200	Rules & Regulations	150 00
11	Settees	11 00
3	Safes	45 00
1	Straight jacket	2 00
3	Stretchers	9 00
5	Sets of law books	50 00
4	Sets First Aid charts	20 00
1	Typewriter	100 00
	Trays and graduates	5 00
12	Waste baskets	12 00
3	Wagon jacks	3 00
		$6,018 00

1 Old auto ambulance

FIRE DEPARTMENT

REAL ESTATE

Buildings	Location	Land Purchased	Erection of Buildings	Land Sq. Feet	Assessed Value	
					Land	Buildings
Engine House No. 1	108 Mt. Auburn St.	.....	.....	In City	building	schedule
Ladder House No. 1	Eliot Square					
Engine House No. 2	384-394 Mass. Ave	Owned by City	1893	10,000	$10,000	$26,000
Ladder House No. 3		1895	1895	10,100	5,506	17,000
Engine House No. 3	35 Third Street.....	1896	1896	9,532	9,532	23,000
Engine House No. 4	2029 Mass. Avenue...	1874	1914-1915	6,000	5,000	55,000
Engine House No. 5	Inman Square	1890	1890-1891	4,994	2,500	12,000
Engine House No. 6	176 River Street.....	Owned by City	1894-1895	9,400	7,300	12,000
Engine House No. 7	350 Main Street.....					
Chemical Engine House No. 1.....	5 Western Avenue...	.....	.....	In City	building	schedule
Chemical Engine House No. 2.....	167 Lexington Avenue	1893	1894	15,262	4,000	16,000
Ladder House No. 2	276 Portland Street..	Owned by City	1887	11,931	3,000	12,000
Engine House No. 8	Junction of Sherman and Garden Street	1903	1904-1905	10,380	2,800	30,000
					$49,600	$203,500

PERSONAL PROPERTY

Estimated Value, March 31, 1916

Apparatus	$85,550 00	
Bedding, etc.	6,941 00	
Hardware and tools	900 00	
Horses and harness	16,300 00	
Miscellaneous	1,100 00	
		$110,791 00

FIRE ALARM AND POLICE TELEGRAPH

ELECTRICAL DEPARTMENT, WIRE ACCOUNT

EQUIPMENT

Fire alarm apparatus and machinery.....	$20,000 00	
Fire alarm and police telegraph circuits.....	10,000 00	
145 fire alarm boxes	11,965 00	
Police signal apparatus and machinery.....	4,450 00	
99 police boxes	10,850 00	
Police signal reserve apparatus	150 00	
Testing instruments	250 00	
Tools	250 00	
Stock on hand	150 00	
Horse, wagon and harness	100 00	
Building in Corbett School yard.....	300 00	
Automobile	1,200 00	
		$59,665 00

HEALTH DEPARTMENT

REAL ESTATE

799 Concord Avenue—Tuberculosis Hospital

Value of buildings	$20,000 00	
Value of land	4,500 00	
		$24,500 00
Linen and bedding	$1,200 00	
Instruments and nursing utensils	125 00	
Dishes and kitchen utensils	250 00	
General furnishings	1,100 00	
		2,675 00
		$27,175 00

PERSONAL PROPERTY

In Office:

7 Desks and 7 desk chairs	$180 00	
Card cabinet and letter files	650 00	
Dictionary and 3 atlases	25 00	
Typewriting machine and desk	20 00	
Stationery and sundries	125 00	
Medical books	20 00	
Duplicator and supplies	25 00	
Disinfecting apparatus and supplies	50 00	
		$1,095 00

In Laboratory:

Microscope	$75 00	
Incubator and thermo-regulator	35 00	
Sterilizing oven	2 25	
Centrifuge	22 50	
Test tubes	5 00	
Diphtheria, sputum, and typhoid outfits	75 00	
Laboratory supplies	15 00	
Cards, card cabinet, stamps and stamp rack	38 50	
		268 25

At Stable and Garage:

Ambulance	$200 00	
Van	50 00	
Buggies	50 00	
Harness	25 00	
Blankets and horse covers	16 50	
Ambulance blankets	36 00	
		377 50
		$28,915 75

Health Department—Concluded

INSPECTION OF MILK AND VINEGAR

In laboratory:	
Electric centrifuge	$50 00
Intermission refractometer	100 00
Zeiss refractometer	75 00
Drying oven	6 00
Water bath	5 00
Polariscope	30 00
Analytical balance and weights	45 00
Platinum dishes (9)	400 00
Chemicals and glassware	25 00
Office furniture	10 00
Discarded apparatus	5 00
High speed centrifuge (1)	30 00
Autoclave and furnishings	115 00
Milk collecting outfit	15 00
Apparatus for plating bacteria	18 00
Petri dishes	6 00
	$935 00

In modified milk room:	
Galvanized iron sterilizing closet (1)	$5 00
Milk cooling ice box (1)	5 00
Station signs	1 00
Bottles and stoppers	24 00
42 Galvanized iron bottle racks	12 00
38 wooden cases	10 00
7 stock pots	7 00
7 baby scales	5 00
3 gas stoves	1 00
3 boilers	3 00
1 bottle filler	1 00
5 tables	2 00
Index cards	50
	$76 50

MUNICIPAL HOSPITAL

Land—Doyle Estate	$60,000 00

CAMBRIDGE CEMETERY

57.576 acres of land	$92,000 00
1 office building	2,500 00
1 house	3,500 00
1 stable and shed	1,000 00
Personal property	4,000 00
Steel storage shed	600 00
	$103,600 00

WEIGHTS AND MEASURES DEPARTMENT

Inventory of Property

Standards furnished by the Commonwealth

1 Balance—5 grains to 100 lbs.
1 Set (5) Avoirdupois Weights, 50-lb., 25-lb., 10-lb., 5-lb.
1 Set (11) Avoirdupois Weights, 4 lb. to 1-16 oz.
1 Kilogramme in case.
1 Steel Meter in case.
1 Brass Yard Measure.
1 Set (5) Iron Dry Measures, 1-2 bush. to 1 quart.
1 Set (6) Iron Liquid Measures, 1 gallon to 1 gill.

Office Furniture

1 Roll Top Desk
1 Black Walnut Desk.
5 Chairs.
1 Table.
1 Clothes Press.
1 Scale Cabinet.
1 Wooden Cabinet.
2 Benches.
1 Sink.
5 Mats.
1 Set Revised Laws.
1 Set Card Records—Oak Case.
1 Set Card Index—Oak Case.
1 Hektograph.
1 Letter Press.
1 Blotter Bath.

Miscellaneous

Miscellaneous books	$200 00
1 Bay Horse	225 00
1 Express Wagon	100 00
1 Light Wagon	85 00
1 Pung	23 00
2 Harnesses	70 00
3 Plush Robes	24 00
1 Stable Blanket	2 00
1 Rain Blanket	2 00
1 Woolen Blanket	8 00
1 Halter	75
1 Hitch Weight	50
1 Balance Scale	88 69
1 Platform Scale, 1-2 to 2,500 lbs	75 00
1 Folding Platform Scale, 1-4 lb. to 600 lbs	30 00
1 Balance, 1-10 milligramme to 500 grammes	35 00
1 Balance, 1-50 grain to 1-2 lb	15 00
1 Sealer's Balance, 1 grain to 100 lbs	150 00
2 Leather tool bags	9 50
1 Sealer's Balance, 1 grain to 8 lbs	50 00
2 Sealer's Trip Scales (not used)	5 00
1 Spring Scale, 1 lb. to 125 lbs	1 00
2 Sets (19) Avoirdupois Weights, 4 lbs. to 1-8 oz	10 00
1 Set (9) Troy Weights, 16 oz. to 1-8 oz	3 00
1 Set (13) Metric Weights, 1 kilo to 1 gramme	5 00
5 Boxes Miscellaneous Weights (not standardized)	10 00
1 Set (3) Iron Weights, 25-lb., 10-lb., 5-lb	5 00
40 50-lb. Weights	100 00
Amount carried forward	$1,332 44

Weights and Measures Department—Concluded

Amount brought forward	$1,332 44
1 Arch	2 00
3 Glass Graduates	1 00
1 Ford Automobile	495 40
4 Set Apothecary Weights	26 00
1 Set (21) Grain Weights, 1,000 gr. to 1-1000 gr	13 50
1 Set (21) Metric Weights, 50 gram to 1-10	13 50
1 Set (5) Copper Dry Measures, 1-2 bushel to 1 quart	45 00
1 Set (3) Brass Dry Measures, 1 quart to 1-2 pint	5 00
2 Sets (14) Copper Liquid Measures, 1 gal, to 1 gill	30 00
1 Yard Measure	1 50
1 Iron Truck	5 00
1 5-gal. Copper Measure	15 00
1 Steel Tape	10 00
1 Pair of Inside Calipers	3 50
1 Set Brands	3 00
1 Plumbers' Furnace	5 00
Miscellaneous Tools	50 00
1 Wagon Scale (Lechmere Square)	400 00
1 Wagon Scale (Porter Road)	400 00
	$2,856 84

CITY HOME

Thirty-two acres land bought August 7, 1849.

Present City Home completed and placed under the care of the Overseers of the Poor, April 3, 1851.

Land cost	$12,000 00
City Home cost	32,970 69
Fences, furniture, etc., cost	3,000 00
Total	$47,970 69
Hospital cottage on City Home grounds built in 1886, moved and rebuilt in 1901, cost	$2,800 00
Two-story brick building erected 1888, cost	5,600 00
Land situated in Cambridge	14 242-1000 acres
Land situated in Somerville (1 1-2 taken by State)	4 454-1000 "
Lands (salable) on plan of April 10, 1884:	
30 lots of 5,000 ft. each (in Somerville)	3 443-1000 "
Total acres of land	24 139-1000 acres

About seven acres of City Home land lying south of Broadway in West Somerville have been sold for house lots. The remaining lots (30) contain 150,000 square feet, and have been held at a valuation of four cents per square foot, but at the present time are assessed for about ten cents.

The valuation of the City Home real estate by the assessors is:

Land in Cambridge	$21,000 00
Buildings in Cambridge	25,000 00
Land in Somerville	26,150 00
Buildings in Somerville	3,200 00
Total	$75,350 00

INVENTORY OF PERSONAL PROPERTY AT CITY HOME

April 1, 1916

Bookkeeping account books, stationery, etc.	$150 00
Drugs, medicines and hospital supplies	400 00
Dry goods, clothing, bedding, furniture, carpets, etc.	5,000 00
Groceries and provisions	250 00
Farm and Stable:	
2 horses, 120 fowls, 550 hot bed sashes, 200 straw mats, 200 shutters, 5 wagons, 1 pung, 1 carriage, 1 sleigh, 3 harnesses, farming implements, tools, fertilizer, etc.	3,000 00
Total	$8,800 00

INVENTORY OF PERSONAL PROPERTY AT OVERSEERS' OFFICE, CENTRAL SQUARE BUILDING, April 1, 1916

Office furniture, filing cases, bookcases, typewriter, books, stationery, etc.	$700 00
City Physician's office—Instruments, microscope, operating table, furniture, medicine, etc.	350 00
Total	$1,050 00

ENGINEERING DEPARTMENT

PERSONAL PROPERTY

7 books, at $3	$21 00
46 vols. engineering papers, at $2.50	115 00
5 logarithm books	5 00
1 pantagraph	10 00
2 planimeters, at $20	40 00
2 numbering machines, at $5	10 00
1 typewriter	50 00
Drawing instruments, pens, compasses, etc.	50 00
Drawing materials and paper	15 00
Wye level	50 00
Dumpy level, $40, hand level, $5	45 00
2 transits, at $100	200 00
Level, line and sounding rods	45 00
5 tapes	10 00
Testing pans, moulds, etc.	10 00
Testing machinery	25 00
Electric motor	4 50
Furniture in office	200 00
Photograph outfit	25 00
Rain gauges, standard and self-recording	75 00
Plans (estimated value), 12,690 at $10	126,900 00
469 field, survey, line and level books, estimated value $20	9,380 00
60 house books, estimated value $10	600 00
Total	$137,885 50

SEWER DEPARTMENT

REAL ESTATE

Location	Buildings.	Erection of Buildings.	Purchase of Land.	Feet of Land.	Assessors' Valuation of Land.	Assessors' Valuation of Buildings.	Total.
Pilgrim Street	Stable...	1887 1881					
" "	Sheds ...	1884 1892					
" "	House...	1890	1868	23,707	$5,900 00	$5,600 00	$11,500

SEWERS

156.877 miles of sewers, which have cost to construct.....$2,427,184 43

PERSONAL PROPERTY—1916

SEWER DEPARTMENT

4 catch basin cleaning carts (old)	$300 00
2 catch basin cleaning carts (iron)	400 00
1 sump cart	45 00
1 tip cart (4 wheel)	20 00
2 tip carts	40 00
1 wagon	25 00
1 dray	45 00
1 hoisting engine	150 00
1 gasoline engine pump	40 00
6 sets harness and clothing for 3 horses	75 00
3 horses	550 00
1 pile driver and 2 hammers	100 00
4 hand pumps and hose	90 00
1 centrifugal pump	20 00
1 street roller (horse)	75 00
Rubber goods (miscellaneous), 8 oil pants, 12 oil coats, 6 hats	25 00
Rubber boots, 17 pairs long boots, 12 pairs short boots	90 00
1 sewer cleaning machine (Healy)	300 00
3 sleighs	25 00
3 tool houses	50 00
1 carson machine castings	25 00
Lanterns and globes	10 00
Tools and implements	500 00
Stock on hand, bricks, castings, lumber, pipe	200 00
400 ft. flushing hose	275 00
Overland automobile 1914 model	500 00
2 8" water ejectors	25 00
1 gasoline tamping machine	250 00
Total	$4,250 00

STREET DEPARTMENT

INVENTORY OF REAL AND PERSONAL PROPERTY

REAL ESTATE

Location.	Buildings and Land.	Erection of Buildings.	Purchase of Land.	Feet of Land.	Valuation of Land.	Valuation of Buildings
Raymond St....	City Yard and Stable, stable, sheds, scales, etc.....	1897	1896	272,670	$27,000	$27,000
	Incinerator plant.....	1912	.....	.....	.....	5,500
Hampshire St...	City Stable, sheds, stables and scales, including old police station.	1885	.....	72,661	30,000	16,000
E. S. Norfolk St.	Yard and pound.....	.....	.....	34,650	10,400	.....
River St.....	Yard and wharf.....	.....	.....	41,546	17,000	.....
Acton, Mass....	Land, gravel bank....	.....	1896	.....	3,000	.....
Main St.....	Land and incinerator plant.....	1908	.....	93,424	31,900	18,000
Tannery St.....	Land, stables, sheds, etc	.....	.....	.....	6,000	4,000
					$125,300	$70,500

Total valuation of real estate..... $195,800

PERSONAL PROPERTY

104 horses	$30,000 00	
25 watering carts	5,000 00	
70 single and double carts	5,000 00	
120 sets harness	2,000 00	
2 concrete mixers	1,800 00	
4 automobiles	1,300 00	
1 bicycle	25 00	
4 steam rollers	12,000 00	
1 scarifier	450 00	
11 Shadbolt carts	3,000 00	
2 Watson carts	400 00	
150 feet straight edgestone	90 00	
150,000 second-hand granite blocks	3,000 00	
1,000 sidewalk bricks	15 00	
150 feet granite flagging	75 00	
100 tons field stone	75 00	
200 tons crushed stone	200 00	
Oil storage, Raymond street	1,000 00	
Stone crushing plant, Raymond street	5,000 00	
Stone crushing plant, Hampshire street	2,000 00	
Furnace and boiler, Main street, Incinerator	9,000 00	
Miscellaneous machinery	500 00	
Miscellaneous tools, road machines, brooms, scrapers, machine brooms, waste barrels, push carts, etc.	10,000 00	
Miscellaneous buggies, wagons, pungs, plows, etc...	5,000 00	
Miscellaneous, grain, hardware, paints, leather and general hardware	1500 00	
		97,980 00
		$293,780 00

STREET LIGHTING

Equipment

258 lamp posts	$2,580 00
Office furniture	375 00
Automobile	500 00
	$3,455 00

BRIDGE DEPARTMENT

PERSONAL PROPERTY

Cambridge and Boston Bridges

Harvard Bridge	$750 00
Prison Point Bridge	940 00
North Harvard Bridge	40 00
River Street Bridge	500 00
Cambridge Bridge	100 00
	$2,330 00

SCHOOLHOUSES

	Feet of Land.	Purchase of Land.	Erection of Buildings.	Valuation of Land.	Valuation of Buildings.
Agassiz	26,034	1874-1915	1875-1915	$10,300	$18,000
Boardman	10,018	1866	1868	4,000	13,500
Bridge	4,646	1836	1836	1,400	. .....
Corlett	10,000	1880	1880 Purchased	2,500	3,000
Ellis	25,700	1897	1898	7,700	50,000
Felton	15,090	1847	1848	5,000	10,000
Fletcher	24,364	1902	1903	7,400	70,000
Gannett	15,434	1876	1886	4,000	12,000
Gore	9,900	1871	1871	4,000	36,000
Haggerty	46,642	1880	1914	5,500	30,000
Harvard	20,494	1870	1871–1899	12,000	65,000
High	74,366	....	1891	44,425	220,000
Houghton	20,306	1904	1904–1905	8,100	90,000
Kelley	25,536	1900	1902	10,000	80,000
Latin	79,579	1894	1897	47,575	225,000
Lowell	12,033	1883	1883	3,600	7,000
Merrill	37,828	1864	1864	19,000	45,000
Morse	25,650	1889	1890	7,000	73,000
Parker	12,319	....	1893	7,000	15,000
Peabody	21,813	1887	1888-1898	14,200	68,000
Putnam	14,400	1825	1889	12,000	65,000
Reed	12,000	1868	1868	1,200	4,000
Rindge Technical	97,128	...	1887	60,000	141,000
Roberts	16,400	1898	1898	7,200	48,000
Russell	33,073	1895	1896	22,300	40,000
Shepard	14,755	1855	1856–1873	10,000	20,000
Sleeper	21,284	1894	1894	5,000	29,000
Tarbell	19,500	1878	1882	4,900	10,000
Taylor	25,278	1894	1895	7,600	36,000
Thorndike	41,273	1911	1912	11,100	140,000
Webster	25,839	1866	1873–1885	9,000	140,000
Wellington	27,673	1875	1884	12,400	100,000
Willard	20,079	1869	1870	5,000	25,000
Wyman	14,347	871	1871–1886	4,000	6,000
				$396,400	$1,894,500

SCHOOL DEPARTMENT

PERSONAL PROPERTY

Text-books	$49,807 48
Desk and reference books	1,839 50
Apparatus and furnishings and machinery	20,705 04
Furniture and furnishings	117,927 77
Stock on hand in storeroom	3,227 65
	$193,507 44

PUBLIC LIBRARY

REAL AND PERSONAL ESTATE

141,666 feet of land, as per assessors' books	$85,000 00	
Library building, as per assessors' books	145,000 00	
		$230,000 00
Estimated valuation of books in the library	$78,000 00	
Estimated valuation of interior furnishings	8,000 00	
Estimated valuation of books in the East Cambridge Branch Library	3,000 00	
Estimated valuation of furnishings in the East Cambridge Branch Library	800 00	
Estimated valuation of books in the North Cambridge Branch Library	4,000 00	
Estimated valuation of furnishings in the North Cambridge Branch Library	1,400 00	
Estimated valuation of books in the Cambridgeport Branch Library	2,000 00	
Estimated valuation of furnishings in the Cambridgeport Branch Library	1,000 00	
Estimated valuation of books in the Cambridge Field Branch Library	1,500 00	
Estimated valuation of furnishings in the Cambridge Field Branch Library	800 00	
Estimated valuation of books in the Mount Auburn Branch Library	1,000 00	
Estimated valuation of furnishings in the Mount Auburn Branch Library	600 00	
		102,100 00
		$332,100 00

The lot (about 590x240 feet) occupied by the library building is bounded by Broadway, Irving, Cambridge and Trowbridge streets. The land and buildings were presented to the City of Cambridge by Mr. Frederick H. Rindge in June, 1889, on the completion of the building, which was begun in the autumn of 1887. In 1894 a wing was added to the buildings at a cost to the city of $20,000, and in 1902 an addition to the stock was made at an expense of about $30,000.

The trustees of the library also hold the following funds, invested in the bonds of the City of Cambridge:

Public Library—Concluded

Citizens' Subscription Fund:		
Sewer loan bond No. 1150, due May 1, 1940, 4 per cent.	$5,000 00	
Sewer loan bond No. 47, due Oct. 1, 1925, 4 per cent.	500 00	
		$5,500 00
Cummings Fund:		
Sewer loan bond No. 1102, due July 1, 1939, 3½ per cent.		2,000 00
Fay Fund:		
Schoolhouse loan bond No. 254, due August 1, 1918, 3½ per cent.		1,000 00
William Penn Harding Fund:		
Deposited in East Cambridge Savings Bank, Book No. 58,916.		1,000 00
William E. Saunders Fund:		
Building loan bond No. 544, due April 1, 1923, 3½ per cent.	$3,000 00	
Street loan bond No. 545, due April 1, 1923, 3½ per cent.	4,000 00	
Deposited in Cambridgeport Savings Bank	564 87	
		7,564 87
Edward H. Whorf Fund:		
Three American Tel. & Tel. Co. bonds, Nos. 9755, 56, 57, due July 1, 1929, 4 per cent		3,000 00
Mehitable C. C. Wilson Fund:		
Deposited in the Harvard Trust Savings Bank		567 91
James A. Woolson Fund:		
Park loan bond No. 701, due April 1, 1945, 3½ per cent		5,000 00
Total		$25,632 78.

PARK DEPARTMENT

LAND

River Parkway	Square Feet	Value
Section A	395,174	$592,761 00
" B	859,000	2,013,750 00
" C	583,082	174,924 60
" D	1,668,709	200,245 08
" E	77,101	77,101 00
" F	605,084	450,000 00
" G	699,948	560,000 00
" H	62,858	31,500 00
Cambridge Field	528,154	264,000 00
Rindge Field and Nursery	501,729	100,000 00
East Cambridge Embankment	349,828	174,000 00
Commons and Squares:		
Garden Street, Massachusetts Avenue and Waterhouse Street	370,784	370,000 00
Massachusetts Avenue, Kirkland Street and Cambridge Street	33,357	66,000 00
Massachusetts Avenue and Peabody Street	23,073	46,000 00
Massachusetts Avenue and Holmes Place	20,956	42,000 00
Massachusetts Avenue and Waterhouse Street	13,180	13,000 00
Broadway Common	107,181	54,000 00
Amount carried forward		$5,229,281 68

Park Department—Concluded

Amount brought forward		$5,229,281 68
Fort Washington	42,123	10,500 00
Dana Square	33,531	12,000 00
Hastings Square	30,000	10,500 00
Langdon Square	3,760	.....
Winthrop Square	11,565	23,000 00
Arsenal Square	3,189	3,100 00
Pleasant and River Streets	1,569	1,200 00
Pleasant Street and Western Avenue	1,372	1,000 00
Massachusetts Avenue and Arrow Street	872	1,700 00
Harvard Street near Prospect Street (Stearns Schoolhouse Lot)	10,050	5,000 00
Longfellow Park	93,618	56,000 00
Washington Elm	886	960 00
Total		$5,354,241 68
Buildings		122,100 00
Equipment		3,600 00
		$5,479,941 08

CITY PROPERTY

MISCELLANEOUS REAL ESTATE

	Assessors' Value
Lot on northwest corner Main and First streets	$17,200 00
" " Clifton Street	500 00
" " Reed Street	100 00
" " Portland Street	11,700 00
" " Harvard (near Prospect Street)	5,000 00
" " New Street (Old Hospital site)	1,800 00
" " Reservoir Street (Old Hospital site)	8,300 00
	$44,600 00

PLAYGROUNDS AND EQUIPMENT.

LAND

	Square Feet	Valuation
Russell Field	888,410	$29,500 00
Houghton	11,804	3,100 00
Peabody	24,438	6,996 00
Morse	13,650	4,100 00
Wellington	8,144	2,800 00
Fletcher	10,187	3,100 00
Sleeper	15,350	2,500 00
Sargent and Fresh Air Lots	20,291	8,000 00
Thorndike Field	136,821	41,100 00
Mill Pond	119,066	36,100 00
Ward 10 Playground	95,657	19,300 00
		$156,596 00

EQUIPMENT

To March 31st, 1916	53,953 36
Total	$210,549 36

SCHEDULE B

No. X

EXEMPTED PROPERTY

The following is a schedule of property used for religious, charitable and educational purposes, and exempt from taxation by law, including property owned by the County of Middlesex, not including that owned by the City of Cambridge, as shown on the Assessors' Books, March 31, 1916.

RETURN OF PROPERTY EXEMPTED FROM TAXATION IN THE CITY OF CAMBRIDGE

Name of Corporation	Description of Property	Valuation Real Estate	Valuation Personal
Avon Home	Building	$50,000 00	$177,747 27
Baptist Home	House and Stable	21,500 00	77,337 89
Bethesda Society			123,715 22
Bigelow, Melville M. and others, Trustees of the Epworth Methodist Episcopal Church	Part of House	2,000 00	
Bishop Leverett J. Wellington Bears, Hector McDonald, George McDougall and Wm. C. Abbott, Trustees of the Church of Scotland, unattached, and George A. Richards, for tax	Church	4,600 00	
Board of Church Extension of the Church Extension Society of the African Methodist Episcopal Church	Church	8,900 00	
Broadway Baptist Church	Church	38,000 00	
Brown, John S., Prescott Evarts, and Samuel G. Babcock, Trustees of St. Bartholomew's Chapel in Cambridge	Church and Building	14,700 00	
Browne and Nichols School, Incorporated, The	Locker House, Lot and Schoolhouse	110,900 00	10,662 00
Buckingham School, The	Schoolhouse and Lot	17,800 00	7,831 16
Burton, Joseph S. and Edwin J. Sheffield and Charles A. Swinerton, Trustees	Lot	3,900 00	
Cambridge and Somerville Hebrew Ladies' Educational Institute	House	4,000 00	150 00
Cambridge Homes for Aged People	Building	110,000 00	197,935 17
Cambridge Hospital	Buildings and Nurses' Buildings	362,000 00	322,896 04
Cambridge School for Girls, Incorp., The	Lot, House and School Buildings	34,200 00	2,007 00
Cambridge Social Union	1 House, 1-3 Hall	25,500 00	1,500 00
Cambridge Visiting Nursing Association	1 House	9,500 00	11,588 75
Cambridge Young Men's Christian Association	Building	235,000 00	27,340 76
Cambridge Young Women's Association	Building	89,700 00	38,793 50
Christ Church, Episcopal	Church and Parish House	69,200 00	

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation Real Estate	Valuation Personal
Church of the Ascension....	Church	9,000 00	
Columbus Day Nursery of Cambridge	1 House	4,300 00	566 65
Congregation Agaduth Ashkenazino of Cambridge....	Buildings	8,700 00	1,000 00
Congregation Beth Israel of Cambridge	Synagogue	17,600 00	
Corporation of the St. Stephen's Baptist Church and Union Institution for Savings in the City of Boston, Mtgee. in possession.....	Church	11,000 00	
Corporation of the New Church Theological School, The	Chapel and Buildings	108,800 00	172,271 16
East End Union Mission Church	Church	$6,000 00	
Episcopal Theological School, Trustees of	Buildings	413,900 00	686,481 90
Epworth M. E. Church.....	Church	87,200 00	
First Baptist Church.....	Church	100,000 00	
First Church of the Evangelical Association of North America	Church	7,900 00	
First Evangelical Congregational Society	Church	52,000 00	
First Parish Church, Unitarian	Church	160,800 00	
First Pentecostal Church of the Nazarine of Cambridge	Lot	3,600 00	
First Reformed Presbyterian Church of Cambridge.....	Church	9,600 00	
First Swedish Baptist Church of Cambridge	Church	8,200 00	
First United Presbyterian Church of Cambridge, Tr..	Church	11,100 00	
First Universalist Society of Cambridge	Church	31,300 00	
Grace M. E. Church.....	Church	20,000 00	
Harvard Lampoon Club.....			7,500 00
Harvard St. M. E. Society...	Church	30,000 00	
Hebrew Literary Association of Cambridge and Somerville			400 00
Hebrew Literary Association of Cambridge and Somerville and George A. Richards for Sidewalk Assessment	Building	16,000 00	
Eighth Regiment of Infantry, Mass. Volunteer Militia....			2,748 84

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation Real Estate	Personal
Holy Ghost Hospital for Incurables	Land, Hospital and House	179,200 00	13,250 00
Immanuel Baptist Church	Church	28,000 00	
Lamson Home, The	House	7,000 00	10,215 89
Longfellow Memorial Association			2,708 91
Marist Fathers of Boston	Lot, Schoolhouse and Buildings	71,200 00	1,500 00
Mass. Association for Promoting the Interests of the Adult Blind, Trustee	House, Brick Shop	22,900 00	5,069 10
Mass. Baptist Convention Union Baptist Church	Church	18,400 00	
Mass. College of Osteopathy	Houses	37,000 00	1,500 00
Mass., Commonwealth of	Parks and Buildings	653,200 00	
Mass., Comomnwealth of, and City of Cambridge for tax.	Lot	3,000 00	
Mass., Commonwealth of, and City of Cambridge for tax and Mary M. Maguire for tax	Meadow	18,500 00	
Mass., Commonwealth of, and Willard Welsh for Sidewalk Assessment and tax	Lot	900 00	
Mass. Institute of Technology	Lot	1,410,300 00	
Middlesex, County of	Buildings	1,369,500 00	50,000 00
Mt. Auburn Cemetery Corporation	Pt. Cemetery	50,000 00	
North Avenue Baptist Church	Church	78,500 00	
North Avenue Congregational Society	Church	43,600 00	
Old Cambridge Baptist Society	Church	171,000 00	
Pilgrim Congregational Church	Church	39,300 00	
President and Fellows of Harvard College	Buildings	11,370,600 00	21,936,772 59
Prospect Union Association	Building	44,800 00	13,258 00
Radcliffe College	Buildings	870,600 00	1,491,450 00
Robinson, Fred O., Stephen E. Jeffery, Everett F. Annis, Chas. W. Rogers, William Wilkins, Robert B. Brown, and Edward R. Markham, Trustees	Church	13,700 00	
Roman Catholic Archbishop of Boston	Buildings	632,400 00	
Rush African M. E. Zion Church and Robert Miller, for Watering Tax	Church	7,100 00	

Exempted Property—Concluded

Name of Corporation	Description of Property	Valuation Real Estate	Valuation Personal
Amounts brought forward			
Sacred Heart School Association of Cambridge.....	Buildings	162,500 00	4,170 00
St. John's Literary Inst.....	Buildings	24,700 00	4,800 00
St. Mary's Parochial School..	Buildings	335,100 00	5,000 00
St. Paul's Roman Catholic School Association	Buildings	230,200 00	4,000 00
St. Peter's Parish Hall Corp.	Buildings	64,600 00	
St. Philip's Episcopal Church	Church	4,300 00	
Salvation Army of Mass.....	Building and Lot	12,700 00	200 00
Shepard Congregational Society	Church	144,000 00	
Stratton, Charles F., Allen K. Sweet and Edwin S. Chapin, Trustees of Riverside Alliance	Building	7,100 00	500 25
Swedish Evangelical Lutheran Augustana Church....	Church	18,100 00	
Swedish Evangelical Missionary Church of Cambridge..	Church	26,600 00	
Third Congregational Society in Cambridge	Church	42,200 00	
Third Universalist Society...	Church	44,800 00	
Trinity Methodist Episcopal Church	Church	41,300 00	
Trustees of Andover Theological Seminary	Building	305,000 00	800,463 81
Trustees of Donations of the Protestant Episcopal Church, Tr.	Church and Chapel	96,200 00	
Trustees of Donotions to the Protestant Episcopal Church in the Diocese of Mass. St. Peter's Church.	Church	19,200 00	
Wheelwright, John T., and Roger L. Scarfe and Arthur H. Weed, Trustees...	Lampoon Building	12,000 00	
Wood Memorial Church, Congregational	Church	34,700 00	
		$21,094,400 00	$26,215,331 86
Real Estate			$21,094,400 00
Personal Property			26,215,331 86
Total Exempted			$47,309,731 86

REPORT OF THE SCHOOL COMMITTEE

SUPERINTENDENT'S REPORT

I submit herewith my fourth annual report which is the forty-eighth in the series of annual reports by the superintendents, and the seventy-sixth of the printed reports of the School Board of Cambridge.

Professional Spirit of the Teachers

The most notable progress of the year has been in the growth of professional spirit as evinced by the great number of teachers who are taking Saturday and evening courses in education. This proof of healthy life is encouraging and gives promise for the future. The teacher who does not devote a proportion of her time to study and to reading along lines of educational advancement will soon find herself in the rear ranks in the march of progress.

Professional reading clubs have been formed in every school building in the city and the teachers devote from one to two hours a week to the study and discussion of some recent publication of some author of acknowledged leadership in the school world of today. These volumes will form the nucleus of a professional library for teachers in each building.

New Building

In September, the new Haggerty School was opened, relieving the long-felt need of a larger building in the Mt. Auburn district. The Haggerty School is a ten room building and when fully equipped will contain all grades from kindergarten to eighth grade inclusive, with a cooking room for the use of the girls of the district and a manual training room for a pre-vocational class where boys will be taught sloyd, printing and sheet metal work. Provision has been made in this building for baths and when the equipment is completed the privilege of the use of the baths will be extended to the men and women of the district.

Increased Accommodations at the High and Latin School

The attention of the citizens must be called again to the pressing need of increased accommodations at the Cambridge High and Latin School. At the opening of the school in September, because of the large number of pupils seeking admission to the school, we were

obliged to inaugurate an afternoon session. Afternoon sessions are undesirable in the High School for many reasons. The added expense entailed is to be considered, and the necessity under which many pupils labor of securing remunerative employment during part of the day. This employment is to be obtained only during the afternoon hours and many pupils have been forced to give up their High School course because required to attend afternoon sessions.

Evening Schools

Our evening schools which had been making great strides in numbers, in method and equipment, did not show the increase the present year that we anticipated. This may have been occasioned first, by the new State law which practically makes it mandatory for a boy to remain in school until he is sixteen; second, by the return of many young men to join the ranks in the European war; and third, because of restricted immigration since the outbreak of the war. However, progress has been marked in many lines and the spirit shown by teachers and pupils has been gratifying.

In one school, one hundred twenty-two men in the citizen classes applied for and received their first naturalization papers.

I wish to express my appreciation of the superior quality of the work of Assistant Superintendent Mahoney who devoted much time and attention to this department, and of the loss which the evening schools of Cambridge have suffered in his resignation.

When Mr. Mahoney became principal of the Lowell State Normal School in December, he took with him the best wishes of all his associates.

Supervisor of Primary Schools and Kindergartens

Miss Mary A. Lewis, after forty-six years of service in the Cambridge schools, on account of failing health, tendered her resignation early in the year. In her retirement from active duty she takes with her the love and respect of all her associates. Her faithful work and her personal worth are appreciated and will be long remembered.

Miss Alice V. McIntire has been appointed to fill the vacancy caused by the resignation of Miss Lewis.

Course of Study

Much thought and labor have been given to the new course of study, and the courses in English and in Spelling have received unusual commendation from educators. The courses in History and Arithmetic are prepared. They were not printed awaiting the decision concerning the introduction of Junior High School work, which, if introduced, would have necessitated fundamental changes in the outlines of these courses. We hope to have the outlines in readiness for September.

Various Departments

The enthusiasm and efficiency of the various heads of departments have secured gratifying results. I call your attention to the growth of interest displayed by pupils in drawing and in music. In course of study and in methods of teaching, I believe these departments have no superior in New England. Reports of the different departments of our system follow.

THE HIGH AND LATIN SCHOOL

The following report of the Cambridge High and Latin School has been submitted by the Head Master, Mr. Leslie L. Cleveland:—

The general character of the year's work has varied but little from that of the years immediately preceding. Several things, however, seem to deserve special mention. These are the school debating, school music, the honor list, and the new clerical course.

A year ago last September, a course in argumentation for boys was introduced with the hope that such regular work would arouse a healthy and permanent interest in debating. A trial of nearly two years under the capable direction of Mr. Campbell has more than justified this hope. The elective has increased in numbers, while the interest in debating has increased to a marked degree. Teams representing the school have debated with Arlington High, Lowell High, and Lexington High. Great interest was shown also in an interclass debate between the sophomores and juniors. The trial debates had so large a number of contestants that excellent teams were assured. If one believes in the value of this kind of preparation for later work, the school is giving an increasingly large number of boys good training. The girls are eager to undertake

a similar kind of work and next year we hope to introduce a girls' elective and develop it along the same general lines as has been done with the boys.

The school music has seen great interest and a larger number of participants. The orchestra numbers between fifty and sixty, does work very creditable to the school, and tends strongly to more school solidarity. Probably it will be wise to have two orchestras another year. A Boys' Glee Club and a Girls' Glee Club have also organized and justified their organization. While we would give great credit to the pupils for their enthusiasm, this enthusiasm must be attributed largely to the inspirational leadership of Mr. Whoriskey.

Last September the clerical course, which had proved very unsatisfactory after a two years' trial, was radically changed in its contents. The change practically made it a trade course in stenography and typewriting, requiring six continuous periods of work with double time in these two subjects. It was meant especially for girls who were over age and could not spend four years in high school. While too early to pass judgment, one thing seems evident even now. These one hundred pupils do quite well in typewriting and in the purely memoriter work of shorthand. When called upon to apply what they have memorized, they seem to be in great trouble.

For some time, the head master had felt that some way should be devised for recognizing high scholarship more fully. The student who excelled as an athlete received recognition for his prowess. This was right provided the physical was not exalted to the neglect of the intellectual. In order that the pupil who excelled in his studies might be known among his fellows, whether he were freshman or senior, an honor list was introduced. This list includes the names of those who have received no mark poorer than "G", *good,* for the preceding quarter year. It is posted on the school bulletin boards and published in both the School Review and a local paper. The publication of such a list has undoubtedly had a stimulating effect upon the intellectual ambition of many students.

The following report from Miss Deering shows what has been done in the way of finding afternoon employment for pupils:—

"During the year ending March 1, 1916, seventy-five applications for school-girl help were received, several of them for the second or third time, chiefly for girls to assist in the work of the household or in the care of children; and, as has been the case for several

years past, a number of families took school girls with them in the summer to their vacation homes. With this immature material, our patrons have as a rule been very patient, and few complaints have come to us of faults so serious that they could not be corrected. The lessons of responsibility and trustworthiness thus learned by the girls and the very practical instruction in housework and the care of children, are of inestimable value; and the material assistance is in many cases on both sides very important. Only recently a girl, who would otherwise have had to leave school, was placed in a good home where she can work for her board. This interchange of helpfulness prevents a deserving pupil, at too early an age, from losing school privileges, while being at the same time, as we hope, of real benefit to the other party. A difficulty has arisen during the past year on account of the afternoon session of freshmen. The community has not as yet become awake to the opportunity of securing morning help; besides, there seem for some reason to be fewer girls available for the early hours of the day than for the afternoon. In consequence, many pupils who would otherwise be glad to earn money by outside work, are shut out from this source of income. This will no doubt in time rectify itself to some extent, but for the present, a considerable number of pupils who want this assistance are deprived of it; and owing to the lack of just these girls, we have occasionally been unable to supply all the demands made upon us for student labor."

Last year's report mentioned the rapid increase in registration since 1910. Three hundred forty more pupils have entered the school this year than last. As the two buildings have seating accommodations for not over two thousand, an afternoon session was made necessary. This session is attended by about five hundred fifty freshmen taking commercial work. As we think of plans for next year, we are confronted with an entering class probably considerably larger. Unless all signs fail, at least twenty-five hundred pupils will seek admission. They must be taken care of either by the holding of afternoon session or by holding back another year the present graduating classes of the grammar schools. The following may be said of the afternoon session after a year's experience: At the beginning, parents, pupils, and a few teachers objected. Whether these objections represented a large number or rather a small number who felt strongly, I have no means of knowing. As far as has been evident in the administration of the school, no such complaints have

been heard for a long time. It may be said that the afternoon hours are awkward in not fitting in to home conditions and previous school habits; that they prevent some from obtaining afternoon employment; that they increase the number who leave school as soon as the law allows rather than attend at such time, and that the attendance is poorer. The records show that the commercial freshmen of last year had an attendance of 94.8 from September to March while this year's class with the afternoon session had an attendance of 92.8. The records, however, also show that the seniors and sophomores had a poorer attendance this year. Such figures seem to suggest the hard weather conditions rather than the afternoon session as the reason for the difference. Last year from the three hundred sixty-five freshmen in the English building, fifty-seven or fifteen and one-half per cent left by the first of March; this year with a registration of five hundred twenty-two, eighty-nine or seventeen per cent left. The very small increase can be accounted for by the greater number of jobs open to pupils and the increased amount of sickness. It may be said in favor of the afternoon session that the pupils are working under very favorable conditions. They are by themselves and so not disturbed by older pupils. Their teachers tell me that appreciably better work has resulted. Should the authorities decide to hold in the grammar schools for another year their graduating classes, there would be an abundance of room for the others. Such a plan would involve the teaching of some high school subjects in the grades and the possibility of giving high school credit for high school work. If credit toward a high school diploma is to be given for this work, it must, of course, be taught by teachers on the high school staff and supervised and tested by high school administration. Any other way would lead to a lack of unity and varying standards of work which must necessarily punish the pupils severely when they later assemble in common classrooms. If the details of such a plan can be worked out satisfactorily, it will enable the city to get some first-hand information on the Junior High School idea before investing heavily in new buildings.

The school is sadly in need of more equipment. In the first place, the administrative offices need filing cabinets. The permanent records of a school should be filed in a place safe from intrusion and safe from fire. Enough steel cabinets should be installed immediately to take care of our present records and these added to from year to year. Much time could be saved in administrative work by the

introduction of a comparatively small amount of office equipment. The commercial department needs the addition of some of the equipment found in the majority of business offices. There should accordingly be installed a multigraph, a statement machine, an adding machine, proper filing cabinets and dictaphone. A multigraph would be of very great value to all departments of the school. The heads of departments set examinations for various classes in their departments but are handicapped by the lack of any means of getting the papers printed. A multigraph would enable the school to get examination papers, announcement circulars or other such matters without referring to a printer and this demand for printed material would give the commercial pupils abundant practice in the use of the machine. If the commercial department is to best fit its graduates for successful competition in securing employment, it must increase their assets in every possible way. The girl who is not only a stenographer and typist but who is also acquainted with the use of the multigraph or the statement machine or the dictaphone or all of them has so much increased asset to her credit. Practically all business offices make use of a more or less intricate system of filing. The commercial department should be equipped with several batteries so that the seniors may become familiar with up-to-date methods of filing. It is earnestly hoped that at least the multigraph and filing cases may be added next year.

Respectfully submitted,

LESLIE L. CLEVELAND,

Head Master of the High and Latin School.

RINDGE TECHNICAL SCHOOL

The following report of the work in the Rindge Technical School during the past year is submitted by the Head Master of the School, Mr. John W. Wood, Jr.:—

During the past year the Rindge Technical School has been serving a considerably increased number of boys both in the college preparatory and in the vocational courses. In fact, so great has been the increase that many of the shops have been overcrowded, and the size of the sections in some subjects increased beyond the most desirable limit. The work in general, has, however, gone on much as usual.

While much might be said of the other departments of the school, the urgency of the needs of the Trade and Business Courses prompts me to confine my attention solely to them. The Trade Course is based upon the theory that boys of fourteen, whether or not graduates of a grammar school, should have the opportunity to begin the study of a trade. Experience has demonstrated to us that this theory is well founded and works well in practice provided that proper care is used in the selection of the boys who are allowed to enter the course. Some of the best work done by the boys of the Trade Course this year has been done by boys who were not grammar school graduates. It might be noted in passing that a careful correlation of this course with the prevocational courses of the grammar schools is an important piece of work that is much needed. In order to obtain the time necessary to secure speed-practice and skill, the school day is lengthened two hours for trade course boys, and the extra afternoon hours (from two to four) devoted to shop work. During the regular school hours (from eight-thirty until two) a varied course of academic and manual training work is provided, the academic work being correlated as closely as possible with the trade work. Provision has been made in this course for boys who wish to learn carpentry or printing. A much larger group of boys who would like to learn machine shop practice, electrical construction and mechanical drawing are at present unprovided for. I would earnestly recommend that during the present year some arrangement be made so that these boys can receive the instruction suited to their needs. No new equipment will be needed to secure this result. Only the appointment of teachers for after-

noon work from those regularly enrolled in the present teaching force would be needed. The teachers employed in this work should be the very best available, since the trade work taught in the afternoon classes forms the core of the whole instruction, and should furnish sufficient interest to carry the student through the demands of the long school day. Moreover, the type of boy resorting to this course needs the most careful and tactful treatment to awaken his ambition and to create habits of industry, application and neatness. The best teachers are needed, too, to map out new courses and methods to fit the peculiar needs of the trade course.

While the work of the Business Course differs radically from that of the Trade Course its needs and possibilities are equally great. The Business Course does not attempt in any way to compete with the Commercial Course of the High School. It aims to train boys for positions which have been given added importance in our industries in the past few years by the almost universal adoption of efficiency systems, scientific management, etc. These positions, which are commercial or executive in character, are best filled by men of the commercial type who possess some little mechanical training and knowledge. The necessary school training and experience in business methods and accounting is furnished by actual work in carrying on the business of the school—receipt and issue of supplies and the accounting necessary to prevent waste and ascertain costs. Some of the work of the course is being admirably done. To give it complete effectiveness, however, a teacher should be secured who has had direct experience and training in the kind of work for which the boys are being trained. Such a man should first have had training in some trade, besides experience in drawing, estimating, routing and planning. His function in the school would be to bring together business department, shops and drawing into an efficient working partnership. Moreover, a course of study should be provided for boys who desire to fit themselves to enter the new courses in business administration which are beginning to appear in the colleges. Boston University has already such a school well organized, and other local colleges are preparing to follow its leadership. The effect of adding college preparation to the work of our business course would be distinctly beneficial, in that definite standards of work would be established and a better type of student attracted to the business course.

Even at the risk of making this report unduly long something

must be said of the work that is being done in vocational guidance, under the direction of Miss Myra I. Ellis, who was appointed Vocational Adviser last year. Much study has been given to both the question of guidance and placement. Some idea may be had of the importance of the latter subject from the fact that during the past week or two the following positions have been filled through the school office:—

One position with a salary of from one thousand to fifteen hundred dollars a year.

One part time position with a salary of ten dollars per week and other advantages which cannot be computed in dollars.

One full time position at ten dollars per week.

Six full time positions at eight dollars per week.

One full time position at twenty-five dollars per month.

Four part time positions at about three dollars and fifty cents per week.

The filling of each position involves the securing of the individual, the careful consideration of his qualifications to fill it satisfactorily and follow-up work to make sure that both the boy and his employer are satisfied.

The method of conducting this follow-up work will be made clear by the following blank form:—

RINDGE TECHNICAL SCHOOL

Vocational Guidance Inquiry

Name .....

Address .....

1. In what year were you graduated from Rindge?.....
2. With whom are you working and what is your position?.....
   or What school or college are you attending?.....
3. How long have you been in this position?.....
4. What other position have you held since graduating?.....
5. What wages are you now receiving?.....
6. Should you wish to consider a change of occupation?.....
7. If not at work, but wishing occupation, please state that fact.

Date.....

Add to the work necessary to fill satisfactorily these positions, the large amount of work necessary to advise boys while in school to choose intelligently the courses of study which will fit them for a desired position, and the supplying of the right content in each school subject to fit the boy broadly for life and specifically for an occupation, and the magnitude of the problem of vocational guidance is apparent. It will, of course, require years of study and experience to arrive at any satisfactory solution. In the meantime, however, consistent effort is bringing some valuable results. In the coming year it is our hope to start a "life career" class which will have as its immediate purpose a careful study of the occupations open to our boys, the opportunities, returns, the requirements of each, and possibly the framing of specifications for some one occupation. This latter work requires the intensive study of a given occupation as represented in our community and the drawing up of a written statement regarding it in some form of theme or report.

There are many other matters probably fully as important as those mentioned, of which it would be pleasant to speak,—of the success of the musical organizations; of the beneficial effects of the new salary schedule in securing permanency in our teaching force; and of the large amount of really remarkable work which the boys have done in the various departments during the year. These, however, must be passed over until some future time furnishes the opportunity to give them the attention they deserve.

Respectfully submitted,

JOHN W. WOOD, Jr.,
Head Master.

THE CAMBRIDGE GIRLS' TRADE SCHOOL

The following report of the Cambridge Girls' Trade School is submitted by the Principal, Miss Katharine A. Burke:—

The aim of the Trade School is to reach girls who are seeking employment, that it may guide them in the choice of a vocation, and enable them to acquire sufficient skill to gain a foothold in industry. It also enables them to enlarge their vision beyond the immediate "job" and immediate wage.

Since there has been no opportunity to introduce new trades, efforts have been spent in a development of the possible trades and through these efforts a decided gain in efficiency has been made.

Especially, improvement has been shown in the correlation of English, arithmetic, the study of industries and textiles with the trade teaching.

The work in design can hardly be mentioned alone for it permeates all branches of trade work. There can be no dressmaking without design. When design is not given consideration the costume proclaims the fact. The work in design has been carried on in the workroom to a great extent and in this way better results have been gained.

In the cookery department the girls are taught to plan, buy and prepare meals that will meet the needs of families having varied incomes. In serving these meals the girls acquire independent thinking and a sense of responsibility which fits them for catering and tea room work. Special emphasis is placed on the value of eating regularly wholesome and nutritious luncheons.

The girls receive their share of choral practice and physical training, thereby giving a little relaxation in their long day. This work also has the further advantage of bringing the girls into closer contact with each other.

A course of lectures on "Hygiene" given weekly during the winter term and the faithful following of the dental clinics have improved the girls to a marked degree.

The placement of the girls testifies to the increasing efficiency of the school, as calls from employers who have had our girls prove that they have been trained to meet the demands of the business world.

The school has been very successful in the sale of finished products and in the increase of order work.

In conclusion I wish to thank Mr. Copithorne, the Librarian of the Public Library, for sending us eighty books from the Public Library during the year. The interest shown in these books proves it would be well to establish a Library Fund for the purchase of suitable books, up-to-date journals and magazines.

Respectfully submitted,

KATHARINE A. BURKE,

Principal.

THE WELLINGTON TRAINING SCHOOL

The following report of the Wellington Training School is submitted by Mr. Herbert H. Bates, Master of the school:—

The Wellington School contains all of the elementary grades and a kindergarten, the number of pupils being nearly one thousand. The school was opened in 1884 and differs from the other schools in this respect,—all the grades below the seventh are taught by young teachers. Their work, however, is done under the immediate supervision of a master and two supervisors who are held responsible for the instruction and management of the school.

The object of conducting a school on this plan is to give the Cambridge young women who desire to teach, and who have made special preparation for the work, an opportunity to gain experience under conditions favorable to their own success and without prejudice to the interests of the pupils.

Graduates of a high school who are also graduates of a college or a normal school may be appointed members of the training class. The required term of service is one year, but members of the class may be excused or dismissed at any time by the superintendent with the approval of the Board.

The money compensation for the first year is at the rate of three hundred dollars per annum for the first five months and until satisfactory service is rendered. For the remaining part of the year it is at the rate of four hundred dollars a year.

At the end of the year's service, the connection of all the members of the training class with the school ceases, until they are elected to a permanent position or given substitute work in the grades in accordance with the rules of the School Board. No employment is guaranteed to graduates of the training class, although

they are generally preferred candidates for election to the grades. Members of the training class who are college graduates must teach at least one year in the grades, after they graduate from the training class, before being considered for a position in a high school. Before being admitted to the training class all candidates must sign an acceptance of these conditions.

From Gregg's "Moral Education" this is gleaned. "Each movement is a new opportunity to live, but our power to utilize it depends upon what we have done in all the yesterdays."

The Wellington School has lived through nearly thirty-two years of yesterdays and has in each movement found new opportunities to make for growth. It is not too much to say of this school that what has been done in all the yesterdays through this long term of years shows that the power to utilize has not all been allowed to go to waste.

As Webster says, "The past, at least, is secure", and it is the intention of all connected with the Wellington School to make the future of the school more successful than has been its past.

Between January 1, 1914 and January 1, 1915, there were twenty-three young ladies admitted to Class B of the training class. Of that number, nine were graduates of some high school and of some college. Fourteen were graduates of some high school and of some normal school.

One of these young ladies withdrew before completing the required term of service. The remaining twenty-two are at work in the Cambridge schools.

Yours respectfully,

HERBERT H. BATES,
Master.

OPEN AIR SCHOOLS

The first Open Air School for frail, anæmic and ill-nourished children was opened April 13, 1910. The Cambridge Anti-Tuberculosis Association was very much interested in the establishment of such a school and great credit was due the association for its generous contribution of time, money and suggestions. The association furnished the blankets, coats, and tooth brushes for the children, provided the cocoa and broth for the first term, and assisted in many ways until the school was well established.

The school committee made the necessary appropriation for remodelling a dwelling house on Winsor Street and for furnishing it suitably for this special purpose. The dining room and examining room were on the first floor and the schoolroom and lavatories on the second. The southern wall of the schoolroom was removed and glass doors substituted so that the whole side of the room could be open to the air at all times. There were ample grounds for play and school gardens adjoining the building, which belonged to the city. The school opened with one teacher, a matron to prepare the food, and fourteen children, but before the first of May the membership had increased to twenty-three.

On entering the school each child was provided with a chair-bag, a leg blanket, a soapstone foot warmer, a worsted toque, a pair of woollen gloves, and an outside coat. With this equipment the children could be kept warm even in the coldest weather. Each child brought bread and fruit and was provided with hot broth and cocoa.

For the year ending June 23, 1911, the per capita cost of the running expense of the school, including instruction, fuel, care and supplies, including food supplies, was $56.73, reckoned upon the membership of twenty-seven, the capacity of the school. The daily program was as follows:—

9.00 Opening exercises.
9.05 Music.
9.25 Spelling or dictation.
9.35 Number, reading or geography.
10.00 Oral language.
10.20 Health talks.
10.30 Recess for lunch of milk in summer and of cocoa in winter.
11.00 Arithmetic, lower grades.
11.25 Arithmetic, upper grades.
12.00 Preparation for lunch by washing faces and hands, etc.

12.15 Lunch of some good nourishing soup and such food as the children brought from home.
Rest Period.
1.00 Reading for all classes.
2.00 Dismissal.

During the spring term the pupils spent the time from two to three o'clock at work in their school gardens or at play.

The school continued in this building until October, 1913, when it became necessary to provide other accommodations for the pupils, as the Park Commissioners needed the land to enlarge the playground at the Roberts School. The teacher and a part of the pupils were transferred to the Felton building on Amory Street, and an open air room fitted up for their use, the food for the class being prepared and served by the girls of the Trade School which is near the Felton building.

Another open air room was opened at this time at the Reed building for the benefit of the pupils living in that district, the matron of the original school being transferred to that building.

In April, 1914, an open air class was formed in the new Thorndike building with one teacher in charge, the matron having charge of the baths preparing and serving the hot lunches for the children.

In April, 1916, an open air class was formed in the Roberts School and a room fitted up for that purpose. One teacher was appointed and a matron to look after the lunches.

At the beginning of the year the Reed building was converted into an Open Air School, all of the rooms being used for these classes. There are three class rooms and one room used for kitchen and dining room, large enough for all the children to be taken care of at once. The school has a principal, three teachers and the matron who was already working in the building.

Following is the program of work in the Reed School and the daily menu for the classes:—

PROGRAM

9.00 Opening Exercises.
9.05 Music.
9.20 Gymnastics.
9.30 Work.
9.45 Cocoa.
10.00 Work.
10.15 Breathing Exercises.
10.20 Work.
10.30 Recess.
10.45 Work.

11.15 Children are washed to prepare for lunch.
11.40 Lunch.
12.20 Teeth are brushed.
12.30 Recess.
1.00 Sleep. (Three divisions, thirty-five minutes each.)
2.55 Closing Exercises.
3.00 School dismissed.

MENU

Monday—Lamb and tomato soup.
Tuesday—Beef and vegetable soup.
Wednesday—Corn chowder.
Thursday—Chicken soup.
Friday—Fish or clam chowder.

Every day at 9.45 cocoa is served to the children.

At the present time we have open air classes in four different buildings with the following number of teachers and pupils:—

	Teachers	Pupils	Matrons
Felton School	1	17	None
Reed School	3	64	1
Roberts School	1	21	1
Thorndike School	2	30	1
	7	132	3

EVENING SCHOOLS

Since 1912 the work of the Evening Schools has been carried on under the direction of Mr. John J. Mahoney, the Assistant Superintendent of Schools, and under his able supervision they have gained both in usefulness and in numbers. Even with the falling off in attendance this year, over five hundred more pupils registered than in the year 1911-1912. The classes have been better graded, the salaries of the teachers increased, and many new features have been introduced into the curriculum. January 1, 1916, Mr. Mahoney was called to the principalship of the Lowell Normal School, and since that time the schools have been in charge of the superintendent of schools.

The Evening Schools for 1915-1916 opened on Monday, October 11, and closed for the first term on Thursday, December 11. The second term opened on Monday, January 3, and closed with the usual graduation exercises during the week ending March 25.

The following table shows the buildings used for evening school purposes, and the character of the work carried on in each:—

TABLE I.

Schools	Classes
Rindge School:	
a. Industrial Classes.	Woodwork, ironwork, printing, mechanical drawing, architectural drawing, electricity, estimating, shop mathematics.
b. Drawing Class....	Freehand drawing.
High School.....	Academic, commercial.
Haggerty, Kelley, Putnam, Roberts, Shepard, Webster	English for foreigners, grammar school work, dressmaking, embroidery, civil service.
Girls' Trade School....	Cooking, embroidery, sewing, millinery.

The registration in all the schools during the evening school season of 1915-1916 was three thousand one hundred forty-eight, a decrease of five hundred seventy-five from the year 1914-1915, due principally to the decrease in immigration on account of the European War, and also because many pupils left the city seeking employment in some other place.

The industrial, mechanical and freehand drawing classes in the Rindge building were well attended, the registration and average attendance showing a slight increase. All of the industrial and mechanical drawing classes were state-aided with the exception of the classes in electricity and the forge work.

The Evening High School shows a registration of eight hundred thirty-nine, a slight increase over last year. The school has been kept up to its usual high standard and both teachers and pupils have shown a great interest in the work of the school. In March, a class of one hundred six was graduated from the school. In November, 1912, the school committee voted that pupils be credited in the High and Latin School for studies completed in the Evening High School which, in the opinion of the superintendent, were equivalent in character and scope to those offered in the High and Latin program. Under this rule, twenty pupils in the Evening High School have been working for credits towards a diploma from the High and Latin School.

The Girls' Evening Trade School was opened for the first time

in October, 1914, and has been carried on with good success during the past two years. During the year 1914-1915, the registration was one hundred thirteen with an average attendance of forty-three, and during the evening school season of 1915-1916 the registration was one hundred eighty-one with an average attendance of fifty-two.

The attendance at the elementary schools has been much less this year than last, due, in a great measure, to the smaller number of foreign-born pupils. In 1914-1915 the registration in these schools was two thousand six hundred thirty-seven, and during the past year there has been a decrease of six hundred fifty. Of this six hundred fifty, five hundred fifty-three were foreign-born pupils, many of them, probably, being called to their own countries on account of the war. The largest decrease was among the Italian and Lithuanian pupils. The following shows the large number of foreign-born pupils attending the elementary classes of the evening schools:—

	1913-1914	1914-1915	1915-1916
Voluntary attendants, over 21.....	833	765	538
Foreign-born under 21.....	847	741	415

Last October a new salary schedule was adopted for the teachers in the Evening Schools, and this much needed increase will enable us to obtain and keep teachers who are interested in and fitted for the work in the evening classes, as evening school work requires not only great skill in teaching but also the power to control and hold pupils not compelled to attend, and also pupils who are, in many cases, older than the teacher having charge of the work. The new salary schedule will be found on page 83 of this report.

The following tables show the attendance at the different schools, the number of assistant teachers, the number of graduates, and the cost of the schools for the year 1915-1916:—

ATTENDANCE AT THE EVENING SCHOOLS
1915-1916
TABLE II.

Schools	Number Registered			Average Number Belonging	Average Attendance	Per cent of Attendance
	Males	Females	Total			
Rindge School:						
a. Industrial Classes	220	..	220	115	82	77.1
b. Drawing Classes..	73		73	40	36	90.0
c. Freehand Classes.	26	3	29	14	10	71.5
Rindge School, totals.	319	3	322	169	128	...
Evening High School..	462	377	839	518	441	85.1
Haggerty School.....	48	83	131	107	73	70.1
Kelley School.....	243	204	447	254	183	72.0
Putnam School.....	156	114	270	216	172	80.0
Roberts School.....	326	251	577	291	210	70.0
Shepard School.....	43	96	139	97	75	77.0
Webster School.....	128	114	242	131	115	88.0
Girls' Trade School....	...	181	181	74	52	67.0
Total	1,725	1,423	3,148	1,857	1,449	78.2

COST OF THE EVENING SCHOOLS
1915-1916
TABLE III.

	Salaries of Teachers	Cost of Text-books and Supplies	Cost of Fuel, Light and Janitor Service	Total	Cost Per Pupil
Rindge School:					
a. Industrial Classes.	$1,861.50	$287.25	$845.05	$2,993.80	$36.51
b. Drawing Classes..	390.00	56.59	195.86	642.45	17.84
c. Freehand Class...	138.00	50.61	97.92	286.53	28.65
Rindge School, totals..	2,389.50	394.45	1,138.83	3,922.78	....
Evening High School..	3,558.00	117.24	745.69	4,420.93	$10.02
Haggerty School.....	794.00	15.54	238.10	1,047.64	14.35
Kelley School.....	1,690 50	64.69	426.15	2,181.34	11.92
Putnam School.....	1,646.50	30.94	322.33	1,999.77	11.62
Roberts School.....	1,618.50	16.30	444.92	2,079.72	9.92
Shepard School.....	807.50	76.04	147.02	1,030.56	13.74
Webster School.....	1,082.50	24.25	405.51	1,512.26	14.01
Girls' Trade School....	556.00	87.09	277.14	920.23	17.69
Director of Household Arts	141.00	....	....	141.00	....
Total	$14,284.00	$826.54	$4,145.69	$19,256.23	$13.28

NUMBER OF ASSISTANT TEACHERS

1914-1915——1915-1916

TABLE IV.

Schools	Average Number of Assistant Teachers	
	1914-1915	1915-1916
Rindge Industrial Classes	7	7
Rindge Drawing Classes	3	2
Freehand Drawing Class	1	1
Evening High School	23	23
Haggerty School	5	4
Kelley School	13	13
Putnam School	19	13
Roberts School	23	12
Shepard School	6	6
Webster School	9	8
Trade School for Girls	3	5
Total	112	94

NUMBER OF GRADUATES

1914-1915——1915-1916

TABLE V.

Schools	Number of Graduates	
	1914-1915	1915-1916
Rindge Industrial Classes	14	14
Rindge Drawing Classes	7	4
Freehand Drawing Class	1	4
Evening High School	111	106
Haggerty School	..	11
Kelley School	14	16
Putnam School	63	36
Roberts School	38	41
Shepard School	16	24
Webster School	49	34
Total	313	290

ATTENDANCE AT THE STATE-AIDED CLASSES

TABLE VI.

	Number Registered			Average Number Belonging	Average Attendance	Per cent of Attendance
	Males	Females	Total			
Rindge School:						
a. Industrial Classes	150		150	75	57	75.0
b. Drawing Classes	73		73	40	36	90.0
Rindge School, totals..	223		223	115	93	...
Girls' Trade School....		181	181	74	52	67.0
Total	223	181	404	189	145	...

ATTENDANCE AT THE INDUSTRIAL CLASSES

(These classes were for women in the elementary schools.)

TABLE VII.

	Number Registered	Average Number Belonging	Average Attendance	Per cent of Attendance
Haggerty School	75	60	49	80.0
Kelley School	84	38	25	65.0
Putnam School	25	16	12	73.8
Roberts School	78	41	29	70.7
Shepard School	69	40	29	72.0
Webster School	52	26	20	77.0
Total	383	221	164	

ATTENDANCE BY PERIODS IN THE DIFFERENT EVENING SCHOOLS

TABLE VIII.

	Nights 1-10	Nights 11-20	Nights 21-40	Nights 41-60
Rindge Industrial Classes ..	34	51	100	108
Freehand Drawing Class ...	12		5	4
Evening High School	137	189	226	287
Haggerty School	18	77	32	4
Kelley School	137	97	127	86
Putnam School	52	35	96	87
Roberts School	175	156	139	107
Shepard School	25	25	55	34
Webster School	84	41	59	58
Girls' Trade School.....	83	42	48	8
Total	757	721	887	783

NATIONALITIES OF THE FOREIGN BORN PUPILS IN THE EVENING SCHOOLS

TABLE IX.

	Over 21			Under 21			Total
	Males	Females	Total	Males	Females	Total	
Armenian	22	4	26	11	2	13	39
French	7	2	9	7	0	7	16
German	5	0	5	2	1	3	8
Greek	23	1	24	8	6	14	38
Italian	75	13	88	114	37	151	239
Jew	48	24	72	21	26	47	119
Lithuanian	70	36	106	21	11	32	138
Polish	79	25	104	19	16	35	139
Portuguese	26	10	36	38	49	87	123
Scandinavian	20	8	28	8	3	11	39
All others	30	10	40	9	6	15	55
Total	405	133	538	258	157	415	953

VACATION SCHOOLS

On Wednesday, July 7, 1915, vacation schools were opened in four of the school buildings and continued for twenty-three days, closing on Friday, August 6.

At the English High Building a class was formed for pupils of the lowest class in the high schools who had failed of promotion. Fourty-four of these pupils were registered, and were under the charge of two men teachers.

Another class was also formed at the English High Building for the pupils of the eighth grade who wished to enter the high schools in September and had failed to obtain a certificate. This class registered seventy-six pupils under the charge of two teachers.

Classes for pupils in the grammar grades below the eighth were formed in the Ellis, Kelley and Webster buildings, for pupils who had failed of promotion and also for a few pupils who wished to do extra work in order to advance more rapidly. Three hundred of these lower grade pupils were registered, with an average attendance of two hundred sixty-two. In the Ellis School twenty-four pupils had perfect attendance for the term.

The following table shows the number in attendance at each school with the number of teachers:—

School Building	Average Attendance	Number Registered	Number of Teachers
English High, Freshman	32	44	2
" " Eighth Grade	70	76	2
Ellis	87	103	2
Kelley	73	81	2
Webster	102	116	3
Agassiz Museum	....	....	1
Total	364	420	12

The cost of the vacation schools, including the salary of the teacher appointed to take charge of the classes at the Agassiz Museum, was as follows:—

Salaries of teachers	$568 50
Salaries of janitors	80 00
Text-books and supplies	62 18
Total	$710 68
Cost per pupil	$1 95

Museum Talks for Cambridge School Children

In addition to the vacation schools a new form of instruction and entertainment was provided at Agassiz Museum for children between the ages of eight and fourteen years who did not attend the vacation schools. Early in July the following notice was circulated among the children of Cambridge by a committee of ladies who were interested in their welfare:—

"It has been proposed to provide opportunity for the school children of Cambridge to learn something of the exhibits in the Harvard University Museum.

The plan having received the approval of the President of the University, the Director of the Museum and the Cambridge School Committee, the undersigned committee has been formed to carry it out.

The Museum talks will be in charge of teachers appointed and paid by the School Committee. The teachers will be aided by a body of volunteers. The taiks will be given on six mornings of the week, through July and the greater part of August.

The children will gather in parties of one hundred at certain distant schoolhouses in different parts of the city where summer courses are to be given. Accompanied by the teachers they will be brought in special cars to the Museum. After an hour or more at the Museum they will return home on foot.

The expense of the undertaking, including special cars and a moderate amount of printing, is estimated at about $300. Subscriptions for this object will be gladly received.

It is believed that the children of Cambridge will benefit in many ways from the personal guidance through the Museum. The committee trusts that the plan will meet with approval and support."

Committee:
MRS. WALLACE W. ATTWOOD, Chairman
MRS. IRVAH L. WINTER, Vice-Chairman
MRS. KIRSOPP LAKE, Secretary
MRS. ALLAN H. COX, Treasurer
MRS. JOSEPH B. RUSSELL
MRS. HORATIO S. WHITE

Adviser to the Committee, Professor W. H. Davis.

Miss Ada A. Billings, a teacher in the Webster Grammar School, was selected to take charge of the children, and she was assisted by a committee of fourteen ladies who volunteered to act as guides at the Museum.

For twenty-seven days, parties of children were taken from some school district where vacation schools were held, conveyed by electrics to the Museum, and put in charge of the ladies who had volunteered their services, and who for an hour rendered docent service for the inspection of the collections. More than thirteen hundred children visited the Museum in these parties, and after a light lunch,

which was given under the charge of Mrs. Winthrop Slade, were sent home in the electrics as it was finally thought best for them to ride instead of allowing them to walk such a long distance.

The success of this work was due to those mentioned above and to the volunteer ladies who gave so generously of their time. The interest in this new form of work was so great that it has been decided to include it in the curriculum of the public schools of the city.

We wish to express our thanks to the people who gave so liberally of their time and money in order that the children of Cambridge might have an instructive as well as an interesting outing during the hot summer days.

DEPARTMENT OF PRACTICAL ART

The following account of the work in this department is submitted by Mr. Peter Roos, the Director of Practical Art:—

The interest in the art lessons and the high standard of the work has been generally well maintained throughout the year. In the High and Latin School a marked advance is shown in designing, lettering, etc.

The annual exhibition of this school last June was of high merit and received much favorable comment from visitors. Reproductions of designs by high school pupils in the Cambridge Review show some of the results of this instruction. The pupils also display proficiency in mechanical drawing, studies from life, and poster work. The latter has been of much practical value in connection with the senior drama recently given in Brattle Hall, the Baby Welfare Campaign and other prominent events.

It would be unreasonable to urge high school pupils to enter upon problems for prizes in competition with professional artists and designers or even with art school students. On account of the limited amount of time allowed for this study, it would be of greater advantage for the pupil, at this stage of his progress, to acquire the fundamentals of art with applications to simple problems.

Light is an important factor in the successful pursuit of this subject. The drawing rooms of our High and Latin School are poorly lighted, so that pupils and teachers are working under serious disadvantages. If any alterations in these buildings are to be made in the near future, it would be desirable to give the needs of this department due consideration.

For a long time there has been a lack of plaster casts and other models needed for form and color studies. A private collection including pottery, shells, mounted birds, etc., numbering about one hundred thirty specimens has been used for a number of years by the art classes. This collection has recently been added to the permanent equipment of the department. There is, however, a need of plaster models of heads, animals and figures. The sum of twenty-five or thirty dollars would supply this want for some time.

These drawbacks do not, apparently, affect the enthusiasm of the classes. The drawing rooms always have an appearance of bustling, orderly activity during the class hours. It seems unfortunate that so little time can be granted in our schools to the training of hand and eye when we remember that it is by efforts with hands and eyes that the majority must earn their living. Cambridge is in this respect behind some cities. Boston, for example, gives more time to this subject even in the elementary schools.

The newly printed outline of the Course in Practical Art is a valuable improvement. Here the teachers can gain an understanding of the entire plan and easily see what ought to be accomplished in each grade in order that the pupil may become duly prepared for the next step. The course is well adapted to the present conditions in our schools and may not need to be revised for many years. It is flexible so as to allow a choice of problems according to the various conditions and ability of classes. It also makes it possible for the teachers to develop their individual artistic talent for teaching the subject, within reasonable limits.

Cyclostyle reproductions of the illustrations for this course have been in the hands of the teachers for many years. These illustrations are nearly all full size. It would have been expensive to have them reduced to the scale necessary for the printed outline and their usefulness would have been lessened by that process. Therefore, it seemed best to continue using the cyclostyle prints especially as they are in some cases accompanied by detailed descriptions of the lessons. More than half of the number of the illustrations are now supplied to the teachers. The remainder, about seventy-five, will be made ready at the earliest possible date.

Our grade teachers always show an excellent disposition toward this study and a readiness to try new problems. This has been of great value in the development of this course of study. All the young teachers who come recommended from the Wellington Train-

ing School for Teachers prove the thoroughness of the training given in that school by their successful handling of the subject in the classrooms. In the case of other applicants for teachers' positions or promotions in the grades, it would be well, in the future, to require substantial evidence of competency in this work. Some committee rules requiring teachers to attend courses of lessons when their interest in the work is found to be slackening or the results in the class persistently unsatisfactory would be a great help toward keeping the study to a high standard.

In the office of the director of practical art is a collection of lesson papers from classes in different parts of the city. These sets of papers show the work of the entire classes as resulting from the lessons given by the grade teachers within the time limits fixed in the curriculum. The subjects represented are quite numerous, including designs for useful and beautiful objects, interior decoration as well as exterior embellishment of the surrounding grounds of estates. Then there are studies in outline, shade and color from nature, common objects, small as well as large, including plans of rooms and elevations of buildings.

Any citizen who is interested in what the children in our schools are doing to train their hands and eyes will be well repaid for the trouble of looking over this collection. The work speaks for itself and is indeed a high compliment to the grade teachers of Cambridge who, without any presumption to artistic standing, awaken in the children much thought, intelligence and ambition.

Respectfully submitted,

PETER ROOS,
Director of Practical Art.

MUSIC

The following report of the work in music is submitted by Mr. John B. Whorisky, the Director of Music:—

Music is taught in three hundred forty-seven classes each calendar month during the school year. Of these, the director of music has one hundred forty-eight elementary and thirty-six high school classes, and the assistant in music has one hundred sixty-three elementary classes. On high schools days, after the regular routine is finished, the director occasionally visits primary schools and the Girls' Trade School to supervise methods and to see the results of the work of young teachers.

High and Latin School

The membership of all classes in music at the High and Latin School numbered nine hundred twenty-four this year, as against four hundred thirty-nine last year, an increase of 110 per cent. The Boys' Glee Club meets after school. It numbers forty-eight, which, if deducted from the total above, shows a net increase of 99.5 per cent over that of last year. The following comparative table gives the membership of each class during the two years:—

Class	1914	1915
Harmony	15	23
Choral Practice	392	*746
Orchestra	32	58
Boys' Glee Club	None	48
Girls' Glee Club	None	49
Total	439	924

*Two classes.

The Course in Harmony exists principally for the benefit of students of instrumental music. However, others may take it, the only requirement being a working knowledge of the keyboard. If contemplated plans for the establishment of a course in Appreciation of Music are carried out, it will be of great value.

The Choral Classes consist of one for the freshmen, exclusively, and another for the sophomores and juniors. The course of the former is an extension of the grammar school course in sight reading. The latter class has the larger work and this year has studied "The Rose Maiden", by Cowen.

The Orchestra has done more to create and foster school spirit than any other single factor within my control. Progressive private teachers recognize its great value and often ask that their private pupils be allowed to join, or that certain pupils be assigned to the more difficult parts. Whenever it is possible their wishes are carried out. Orchestral Practice is now recognized as a prepared subject in this school, and two credits toward a diploma are given each year. Two classes will be necessary next year if the rate of increase keeps pace with that of the present year. The members participated in all school functions where their services were desired, and at outside civic affairs.

The Glee Clubs are the first of their kind at the schools. The Senior Girls' Glee Club has a regular school period, and its members will receive due credit for work performed. The Boys' Glee Club, not having a regular period within school hours, meets each Thurs-

day after school and the attendance is kept. No credit was promised. The spirit is splendid.

Rindge Technical School

At Rindge Technical School one hundred sixty-six boys elected Choral Practice, and thirty elected Orchestral Practice. Each member of the singing class was a candidate for a position on the teams that were to compete later for the John W. Wood, Jr., cup. Eight teams of eight boys each, and four alternates for each team, entered the preliminaries. In January the elimination contest was held and five teams remained to enter the finals. The judges, Dr. Francis Henry Wade, and Mr. Benedict Fitzgerald, awarded the decision to the team directed by Leader Thomas F. Holden. The boys also received bronze medals. The contests, inaugurated February 4, 1915, have been very successful, due to the cooperation of Mr. Wood, who managed the business details, originated the plan for the medals, and made himself responsible in financing the project. The Glee Club, composed of members of competing teams, is doing excellent work.

The orchestra at Rindge, although not so large as that at the High and Latin School, has a greater variety of instruments. These were secured by means of surplus balances from song concerts and other entertainments during the past four years. The school now owns a double bass, a cello, a clarinet and two trombones, all of which were loaned to pupils who learned to play them.

Girls' Trade School

In October, Miss Emma Gertrude Smith began her duties as a temporary teacher to have charge of Choral Practice at the Girls' Trade School. The object of this work is to teach the value of a well modulated voice, and to furnish a useful recreation to girls whose other duties might prove irksome. Three periods are given, on Monday, Wednesday and Friday, of each week. The classes are taught separately and are brought together once each week. The work is still in the experimental stage and if continued I hope to be able to give it closer supervision.

Elementary Grades

The reports of Miss Hackett, the Assistant in Music, show that on November first there were five hundred fifty-nine partial or com-

plete monotones in the classes taught by her. On March first there was a decrease of over thirty-two per cent.

That it is possible to correct the faults of so many pupils in a short space of time is a tribute to the zeal of the room teachers, because daily individual attention is necessary to accomplish results. Several factors contribute to the large number of pupils who have defective tone sense at the beginning of the school year. A proportion is defective on account of certain racial characteristics, but I am convinced that much of the trouble is due to the square pianos that are used in the kindergarten rooms and in some primary rooms. They will not remain in tune. Cambridge cannot afford to purchase any more instruments of this type, because their tones not only cause further injury to the sense of pitch of partial monotones but they also affect the tone perception of children who are normal when they enter school. Several of the pianos in use in the kindergartens should be discarded and replaced by more modern instruments. The pianos in use in certain primary grade rooms are owned by the teachers, therefore the school department has never assumed the responsibility of keeping them in tune.

I recommend that the School Board require that pupil teachers and teacher applicants for positions in the grades shall be prepared to pass an examination in music. Even though failure in this branch may not bar otherwise exceptional candidates who desire appointment, the examination would aid materially in fixing the musical status of each appointee, and provision could be made at once to relieve her of this study by having it taught by another who is qualified.

The sight reading ability of pupils in the elementary grades has not been permitted to fall below the standard. While a general method of teaching is provided for each teacher, its spirit is suggestive and allows her to exercise her individuality.

As the time for music is limited, tools to expedite blackboard work should be provided. Each building should be equipped with staff liners, so that problems of notation may be visualized quickly.

During the past year at the Peabody and Thorndike schools it was deemed advisable to place the responsibility of teaching music in several grades on one person. Miss Josephine C. Wyman of the Peabody, and Mr. Charles M. Herlihy of the Thorndike assumed the work. The results have been beyond expectations and are worthy of commendation.

Grammar School Orchestras

Three grammar school orchestras were organized this year—at the Ellis, the Harvard and the Kelley schools. Practice was carried on after school hours, but no difficulty was experienced in finding grade teachers who were willing to undertake its supervision. The volunteers are Miss Charlotte L. Griswold at the Ellis, Miss Marguerite L. Harris and Miss Lucy E. Sullivan at the Harvard; and Mr. Francis J. O'Hara and Miss Esther D. Paul at the Kelley. The opportunity to play together has afforded the pupils rare pleasure and they are making good progress. I wish to record my deep appreciation of the self secrificing devotion of these teachers as shown by their efforts in behalf of the pupils' welfare.

Office Equipment

The present equipment of the office of this department is utterly inadequate to carry on the work satisfactorily. A suitable desk, a commodious filing cabinet and a typewriting machine and its accessories are absolutely necessary. The clerical work includes the compilation and filing of statistics relating to public school music; preparation of special reports that may be required by state, national or local boards; planning of courses of study and suggestive methods; data relating to instruments in use; records of the various classes throughout the city; office correspondence, etc.

Sixty chairs are needed for the use of the orchestra at the Latin building, and there should be additional shelf space in the music room.

I wish to thank the members of the School Board for their recognition of the work of the orchestras by their recent decision to furnish necessary orchestral music; and also for authorizing the purchase of a set of tympani for the orchestras.

In closing this report, I also beg to acknowledge the co-operation of the superintendent in all I have undertaken during the past year.

Respectfully submitted,

JOHN B. WHORISKEY,

Director of Music.

ATTENDANCE OFFICERS

The work of the attendance officers is carried on under the direct supervision of the superintendent. There are six officers, one being assigned to the high schools, and the other five to different school districts, each officer having charge of from five to seven schools.

Among the duties of the attendance officers are the following:—

To devote all their time to the duties of their office; to inquire into all cases of absence, truancy, juvenile vagrancy, persistent disobedience to the rules of school and unlawful detention from school; to report to parents all cases of suspension from school, and to assist in taking the school census when so directed; to visit each school at least once each day, unless otherwise directed by the superintendent; to prevent children from loitering about school premises to the annoyance and disturbance of the neighborhood; to prosecute in the name of the city, when so directed by the superintendent, all persons violating the public statutes relating to school attendance.

To visit and inspect each month, while the public schools are in session, all factories, workshops, and mercantile establishments in their respective districts, and ascertain if there is any violation of the public statutes relating to the employment of children; to pay particular attention to the employment of minors who are required by law to attend evening school as a condition of their employment.

To thoroughly acquaint themselves with all cases of neglected children coming to their knowledge in their several districts. When satisfied, after a full investigation and careful consideration, that the case is one in which court proceedings should be taken, to report to the superintendent and cooperate with him in his disposition of the case.

Attendance officers may be detailed by the superintendent to be present at any school building during the session of an evening school, or whenever the building is used for other than day school purposes, to assist in the preservation of order and in the protection of the property in and about the building.

The school census for the year 1915 was taken by the attendance officers with the assistance of four other men.

The following is the summary of the work of the attendance officers for the year from September, 1914, to July, 1915:—

Number of absences investigated	10,923
Truancy, first offence	424
Truancy, third offence	86
Children found wandering about the streets not belonging to any school	41
Such children sent to school	38
Visits to mercantile and manufacturing establishments	867
Children employed without certificates	38

The statistics of the private and parochial schools, obtained by one of the attendance officers, show that there are seven parochial schools and four private schools in the city. The private schools received $81,935 for the tuition of the pupils in those schools.

The number of pupils in the private and parochial schools in December, 1915, was as follows:—

	Boys	Girls	Total
Parochial schools	2,355	2,727	5,082
Private schools	178	202	380
Total number of pupils not in public schools	2,533	2,929	5,462

MEDICAL INSPECTION IN THE SCHOOLS

(This work is carried on by the Board of Health.)

In 1894 the Cambridge Board of Health, in accordance with a request of the school committee, appointed a physician to examine all cases of contagious diseases affecting the attendance of children at public schools, and to issue, in behalf of the board of health, all certificates required.

As a further precaution against contagious diseases, the board of health in 1896 established a system of medical inspection in the schools. The city was divided into six districts, in each of which a physician was appointed to visit the schools in that district. Later on physicians were appointed to visit the parochial schools as they were opened, and five are now doing that work.

The following rules relating to the medical inspection of the schools were adopted by the board of health in September 1914:—

1. Each inspector is to visit at least one school in his district each day. He is to visit every school in his district whenever the customary signal is displayed.

2. A card is to be made out for every case seen and must be filled out completely and signed, or initialized. Under diagnosis a definite statement as to the trouble must be made in order that cases may be classified, and so far as possible the diagnosis must correspond with that on the monthly report. When a school is visited

and no cases seen, a card must be filled out with the statement "visit of inspection" made thereon.

3. Once each week all cards made out by each inspector are to be sent to the board of health office or left at a culture station for collection. Once each month a report on a special form is to be made out and sent to the office of the board of health. On this card the number of examinations for work certificates, the number of examinations for vaccinations and the number of visits for release of cases of contagious diseases are to be stated.

4. The following cases are to be excluded, and must be re-examined by the school inspector before they can be readmitted, unless a permit to return to school has been issued from the board of health office:—

Small Pox	Mumps
Diphtheria	Tonsilitis
Scarlet Fever	Influenza
Measles	Trachoma
German Measles	Scabies
Chicken Pox	Pediculosis, or other infectious
Whooping Cough	skin disease.
Pulmonary Tuberculosis	

Such other cases as, in the opinion of the school inspector, require exclusion.

Cases in which there is contagious disease at home, not having a permit from the Board of Health.

5. School inspectors are not authorized to delegate any of their duties to the school nurses, especially the exclusion and re-admission of cases.

6. Each inspector must notify the board of health office at once of every case excluded by him, giving the name, address, school and cause of exclusion.

7. School inspectors are to take cognizance of all conditions affecting the health of school children and teachers, including ventilation, heating, lighting and apparatus.

The work of the school nurses is also carried on by the board of health. There are three nurses who work with the medical inspectors and cooperate with the school department in every way possible. Children who are sent to the open air classes are sent under the direction of the head nurse.

The following table shows the number of cases of contagious diseases reported by the board of health to the school department, and by the attendance officers to the various schools during the year 1915:—

Chicken Pox	267
Diphtheria	358
German Measles	22
Measles	871
Mumps	124
Scarlet Fever	379
Whooping Cough	295
Total	2,316

SIGHT AND HEARING TESTS

In accordance with the laws of the state, the annual testing of the sight and hearing of the pupils in the public schools was made in October, 1915. All of the pupils in the public schools were examined except those in the first primary grades and in the kindergartens. Notices were sent to the parents of the pupils whose sight or hearing was found defective, and many cases have received professional treatment.

The following is a summary of the tests in sight and hearing for the last four years:—

	1912	1913	1914	1915
Number enrolled	15,080	15,345	15,868	16,156
Number examined	11,990	12,398	13,088	13,485
Number defective in sight	2,050	1,699	1,645	1,749
Number defective in hearing	330	215	217	195
Number of parents notified	2,017	1,592	1,592	1,643

In conclusion, I wish to emphasize the great dearth of equipment in the Cambridge High and Latin and Rindge Technical Schools. If we wish our High Schools to compare favorably with others of high standards of efficiency we must give the boys and girls the same advantages as to equipment that our neighbors enjoy.

Respectfully submitted,

MICHAEL E. FITZGERALD,

Superintendent of Schools.

Office of the Mayor
Cambridge, Mass.

August 4, 1916,

The Cambridge charter which went into operation January 1, 1916, terminated the office of all members of the former School Board. The present Board is responsible only since the above date for the work of this department.

The Massachusetts Board of Education has ruled and the law makes it mandatory that the annual report shall be signed. The former Board has declined to sign the report, on the ground that their office ceased January 1, 1916.

In placing my signature on this report, I am acting in compliance with the State law and the requirements of the Board of Education, but assume no responsibility for any statements in this report relating to the work of the department from April 1 to December 31, 1915, inclusive.

Wendell D. Rockwood,
Mayor and Chairman of the School Committee.

STATISTICS

FINANCES

For the Financial Year from April 1, 1915, to April 1, 1916

RECEIPTS

Amount received from the tax levy under the City Charter....	$692,932 78
Brought forward from 1913-1914.....	4,867 59
Revenue for March, 1914.....	563 66
Revenue received for 1915-1916.....	11,189 26
Total amount available for the support of schools.....	$709,553 29

EXPENDITURES

Salaries of teachers, all schools.....	$532,031 92
General expenses, salaries	28,506 58
General expenses, supplies.....	8,195 35
Text-books and supplies.....	31,909 50
Transportation of pupils.....	396 00
Support of truants.....	225 14
Janitor service	56,202 67
Janitors' supplies	1,497 10
Repairs to buildings, etc.....	20,084 56
Furniture and furnishings.....	1,380 93
Fuel and light.....	20,324 13
Other school expenses.....	2,934 69
Tuition to other cities.....	70 43
Total expenditures	$703,759 00
Balance unexpended	5,794 29
Outstanding bills to be paid out of this balance.....	4,946 61

COST OF INSTRUCTION

From April 1, 1915, to April 1, 1916

Schools and Officers	Cost of Instruction	Average Number of Pupils for Year Ending in June	Cost per Pupil
High and Latin School	$88,192 10	1,857	$47 49
Rindge Technical School	41,313 95	548	75 39
Training School (Teachers)	23,606 04	941	25 08
Grammar Schools	187,696 19	6,568	28 65
Primary School	122,783 56	5,018	24 46
Kindergartens	25,811 44	649	39 77
Girls' Trade School	7,337 26	.....	.....
Substitute Teachers	8,921 56	.....	.....
Department of Practical Art	3,168 00	.....	.....
Department of Music	3,108 00	.....	.....
Manual Training and Pre-Vocational Work in Grades	4,170 55	.....	.....
Teachers of Sewing	4,685 02	.....	.....
Teachers of Cooking	705 75	.....	.....
Superintendent	5,000 00	.....	.....
Assistant Superintendent*	2,250 00	.....	.....
Supervisors of Primary Schools and Kindergartens	1,750 50	.....	.....
Business Agent	1,800 00	.....	.....
Pension for Agent	1,426 00	.....	.....
Clerks	4,157 33	.....	.....
Porter	804 00	.....	.....
Attendance Officers	6,647 00	.....	.....
Extra Work in Taking Census	351 75	.....	.....
Total	$545,686 00	15,581	$35 02

Cost of Instruction in Evening Drawing Schools	$528 00
Cost of Instruction in Evening Industrial School	1,861 50
Cost of Instruction in Evening High School	3,558 00
Cost of Instruction in Evening Trade School	556 00
Cost of Instruction in Evening Elementary Schools	7,639 50
Salary of Director of Household Arts	141 00
Total	$14,284 00
Cost of Instruction in Vacation Schools	$568 50

*Resigned January 1, 1916.

COST OF INSTRUCTION IN THE DAY SCHOOLS

Salaries of teachers, superintendent, supervisor, agent, clerks, and truant officers.

Year	Number of Teachers in December	Number of Pupils in December	Average Number of Pupils for Year Ending in June	Total Cost	Cost per Pupil
1907	460	15,580	14,957	$385,927.00	$25.80
1908	454	16,019	15,214	374,000.99	24.58
1909	457	15,895	15,465	389,919.31	25.21
1910	456	15,633	15,457	391,398.56	25.32
1911	459	15,328	15,135	407,730.84	26.94
1912	473	15,502	14,946	432,370.47	28.93
1913	485	15,909	15,258	469,292.44	30.75
1914	499	16,105	15,510	501,693.10	32.34
1915	523	16,232	15,581	545,686.00	35.02

COST OF THE DAY SCHOOLS

Cost of instruction, of text-books and supplies, of incidental expenses, of the care of truants, the care of schoolhouses, and of the transportation of pupils, but not including repairs.

Year	Number of Teachers in December	Number of Pupils in December	Average Number of Pupils for Year Ending in June	Total Cost	Cost per Pupil
1907	460	15,580	14,957	$488,636.18	$32.67
1908	454	16,019	15,214	477,286.82	31.37
1909	457	15,895	15,465	489,712.68	31.66
1910	456	15,633	15,457	492,579.06	31.86
1911	459	15,328	15,135	508,168.85	33.58
1912	473	15,502	14,946	535,683.13	35.84
1913	485	15,909	15,258	566,215.45	37.11
1914	499	16,105	15,510	607,875.97	39.19
1915	523	16,232	15,581	664,001.18	42.62

COST OF INSTRUCTION IN THE EVENING SCHOOLS

Year	Drawing	Industrial	High	Elementary	Director	Total
1910	$1,197.00	$1,309.00	$1,585.00	$7,062.00	$315.00	$11,468.00
1911	936.00	1,218.00	1,600.00	7,832.00	300.00	10,886.00
1912	819.00	1,809.50	2,231.00	7,492.75	400.00	12,752.25
1913	749.00	1,899.50	2,316.00	*6,894.00	.....	11,859.00
1914	654.00	1,808.50	3,152.00	†7,820.50	.....	13,435.00
1915	528.00	1,861.50	3,558.00	†8,336.50	.....	14,284.00

*Including the cooking class, etc.
†Including the trade class, etc.

GENERAL STATISTICS

SUMMARY

Population of Cambridge

1865	29,112	1895	81,643
1875	47,838	1905	97,434
1885	59,600	1910	104,391
1915	108,822		

SCHOOL CENSUS

Number of children in the city five years old or over, but less than sixteen: boys, 11,816; girls, 11,566; total, 23,382.

Number of children in the city five years old or over and under seven years of age: boys, 2,135; girls, 2,110; total, 4,245.

Number of children in the city seven years of age or over and under fourteen years of age: boys, 7,837; girls, 7,605; total, 15,442.

Number of children in the city fourteen years of age or over and under sixteen years of age: boys, 1,844; girls, 1,851; total, 3,695.

Schools and Classrooms

December, 1915

(a) High and Latin	1	Classrooms in use	45
(b) Rindge Technical School	1	" " "	18
(c) Elementary Schools	29	" " "	315
Kindergartens	17	" " "	17
Girls' Trade School	1	" " "	5
Evening Industrial School	1	" " "	8
Evening Drawing Schools	2	" " "	3
Evening High School	1	" " "	23
Evening Elementary Schools	6	" " "	49
Evening Trade School for Girls	1	" " "	4
Whole number of Day Schools			49
Whole number of classrooms for Dav Schools			400
Whole number of Evening Schools			11
Whole number of classrooms for Evening Schools			87

(a) This school occupies two buildings and has assembly halls, libraries, lecture rooms, recitation rooms, chemical and physical laboratories, a drawing room and a gymnasium.

(b) This school occupies three buildings and has an assembly hall, drawing rooms, recitation rooms, chemical, electrical and physical laboratories, and rooms for various kinds of shop work.

(c) Fifteen of these schools have assembly halls.

NUMBER OF TEACHERS IN THE DAY SCHOOLS

December	High and Latin School	Rindge Technical School	Elementary Schools	Kindergartens	Trade School	Directors and Special Teachers	Total
1911	54	27	335	28	...	15	459
1912	64	27	340	28	...	14	473
1913	63	28	348	29	5	12	485
1914	67	27	355	29	8	13	499
1915	84	28	359	30	8	14	523

ATTENDANCE AT ALL THE DAY SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1911	8,696	8,137	16,833	15,135	14,137	93.4
1912	8,765	8,112	16,877	14,946	13,944	93.3
1913	8,813	8,334	17,147	15,258	14,105	92.5
1914	8,793	8,341	17,134	15,510	14,374	92.6
1915	8,853	8,496	17,349	15,581	14,622	93.8

ATTENDANCE AT THE HIGH AND LATIN SCHOOL

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1911	335	1,073	a 1,408	1,226	1,177	96.0
1912	470	1,250	b 1,720	1,487	1,430	96.1
1913	587	1,188	c 1,775	1,647	1,545	93.6
1914	616	1,263	d 1,879	1,726	1,651	95.6
1915	696	1,343	2,039	1,857	1,784	96.1

(a) This number includes 185 that entered the school in February.
(b) This number includes 209 that entered the school in February.
(c) This number includes 68 that entered the school in February.
(d) This number includes 50 that entered the school in February.

ATTENDANCE AT THE RINDGE TECHNICAL SCHOOL

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1911	a 705	587	557	94.8
1912	b 699	584	550	94.1
1913	c 645	537	507	94.4
1914	d 614	530	500	94.3
1915	621	548	514	93.8

(a) This number includes 85 that entered the school in February.
(b) This number includes 73 that entered the school in February.
(c) This number includes 68 that entered the school in February.
(d) This number includes 37 that entered the school in February.

ATTENDANCE AT THE GRAMMAR SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1911	4,205	3,959	8,164	7,665	7,271	94.9
1912	3,985	3,790	7,775	7,356	6,926	94.2
1913	3,970	3,846	7,816	7,105	6,972	93.9
1914	3,851	3,769	7,620	7,182	6,735	93.7
1915	3,987	3,800	7,787	7,160	6,866	95.9

ATTENDANCE AT THE PRIMARY SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1911	3,128	2,783	5,911	4,970	4,575	92.0
1912	2,997	2,554	5,551	4,548	4,218	92.7
1913	3,220	2,821	6,041	5,265	4,797	91.1
1914	3,305	2,883	6,188	5,399	4,947	91.6
1915	3,121	2,888	6,009	5,367	4,911	9.15

ATTENDANCE AT THE KINDERGARTENS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1911	465	450	915	687	557	81.0
1912	749	665	1,414	971	820	84.0
1913	484	522	1,006	704	584	82.8
1914	463	457	920	673	541	80.4
1915	428	465	893	649	547	84.3

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE HIGH AND LATIN SCHOOL

Year	Boys	Average Age	Girls	Average Age
1911 Feb.	57	14 years ½ month	128	14 years 1 month
Sept.	106	14 years 3 months	350	14 years 6 months
1912 Feb.	62	13 years 9 months	147	14 years 4 months
Sept.	165	14 years 6 months	265	14 years 3 months
1913 Feb.	25	13 years 11 months	43	14 years 1 month
Sept.	163	13 years 7 months	361	14 years 5 months
1914 Feb.	19	13 years 9 months	31	14 years 3 months
Sept.	245	14 years 6 months	433	14 years 6 months
1915 Sept.	225	14 years 3 months	615	14 years 7 months

NUMBER OF PUPILS GRADUATED FROM THE HIGH AND LATIN SCHOOL

Year	Boys	Average Age	Girls	Average Age
1911	56	18 years 3 months	146	18 years 4 months
1912	41	17 years 11 months	131	18 years 2 months
1913	49	18 years 3 months	146	18 years 4 months
1914	65	18 years 3 months	146	18 years 0 months
1915	64	17 years 8 months	195	17 years 9 months

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE RINDGE TECHNICAL SCHOOL, WITH THE NUMBER OF GRADUATES.

Year	Admitted	Average Age	Graduated in June	Average Age
1911 Feb.	85	14 years 2 months	83	17 years 7 months
Sept.	218	14 years 8 months		
1912 Feb.	73	14 years 8 months	62	18 years 5 months
Sept.	148	14 years 8 months		
1913 Feb.	68	14 years 10 months	63	18 years 6 months
Sept.	172	14 years 11 months		
1914 Feb.	37	14 years 9 months	72	18 years 4 months
Sept.	230	14 years 7 months		
1915 Sept.	329	14 years 6 months	87	18 years 6 months

NUMBER OF PUPILS GRADUATED FROM THE GIRLS' TRADE SCHOOL

Year	Boys	Average Age	Girls	Average Age
1915	....	.....	18	18 years 1 month

NUMBER OF PUPILS GRADUATED FROM THE GRAMMAR SCHOOLS

Year	Boys	Average Age	Girls	Average Age
1911 Feb.	153	14 years 2 months	128	14 years 6 months
June	345	14 years 7 months	389	14 years 7 months
1912 Feb.	157	14 years 3 months	148	14 years 5 months
June	294	14 years 3 months	293	14 years 6 months
1913 Feb.	54	14 years 7 months	52	14 years 5 months
June	315	14 years 6 months	367	14 years 6 months
1914 Feb.	46	14 years 8 months	35	14 years 8 months
Sept.	424	14 years 6 months	473	14 years 8 months
1915	560	14 years 6 months	605	14 years 6 months

NUMBER OF PUPILS COMPLETING THE PRIMARY COURSE OF STUDY

Year	Boys	Average Age	Girls	Average Age
1911	672	9 years 4 months	667	9 years 1 month
1912	679	9 years 4 months	586	9 years 2 months
1913	713	9 years 6 months	629	9 years 7 months
1914	831	9 years 9 months	668	9 years 7 months
1915	750	9 years 2 months	672	9 years 7 months

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE GRAMMAR SCHOOLS

Year	In 3½ or 4 years	In 4½ or 5 years	In 5½ or 6 years	In 6½ or more
1911	9 per cent	28 per cent.	50 per cent	13 per cent
1912	12 per cent	36 per cent	43 per cent	9 per cent
1913	14 per cent	42 per cent.	36 per cent	8 per cent
1914	12 per cent	42 per cent	37 per cent	9 per cent
1915	13 per cent	52 per cent	30 per cent	5 per cent

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE PRIMARY SCHOOLS

Year	In less than 3 years	In 3 years	Between 3 and 4 years	In 4 years	In more than 4 years
1911	30 per cent	36 per cent	13 per cent	13 per cent	8 per cent
1912	21 per cent	40 per cent	16 per cent	12 per cent	11 per cent
1913	13 per cent	47 per cent	11 per cent	18 per cent	11 per cent
1914	20 per cent	37 per cent	8 per cent	24 per cent	11 per cent
1915	8 per cent	61 per cent.	6 per cent	17 per cent	8 per cent

NUMBER OF PUPILS IN THE HIGH AND LATIN SCHOOL, DECEMBER, 1915

Year	Boys	Girls	Total	Per cent
Post Graduate	20	26	46	.021
Twelfth A	22	54	76	.034
Twelfth	69	150	219	.098
Eleventh A	49	81	130	.058
Eleventh	87	158	245	.109
Tenth A	48	97	145	.064
Tenth	153	271	424	.149
Ninth A	59	85	144	.064
Ninth	234	579	813	.363
Totals	741	1,501	2,242	

NUMBER OF PUPILS IN THE RINDGE TECHNICAL SCHOOL, DECEMBER, 1915

Year	Boys		Per cent
Twelfth A	13		.020
Twelfth	55		.086
Eleventh A	29	This school is for boys	.045
Eleventh	76	only. It became a part	.118
Tenth A	19	of the public school sys-	.030
Tenth	120	tem January 1, 1899.	.187
Ninth A	25		.039
Ninth	305		.475
Total	642		

NUMBER OF PUPILS IN THE TRADE SCHOOL, THE OPEN AIR ROOMS AND THE SPECIAL AND UNGRADED CLASSES, DECEMBER, 1915

School	Boys	Girls	Total
Trade School	...	72	72
Open-Air Rooms	46	42	88
Special Classes	66	30	96
Ungraded Classes	47	19	66
Totals	159	163	322

NUMBER OF PUPILS IN THE GRAMMAR SCHOOLS, DECEMBER, 1915

Year	Boys	Girls	Total	Per cent
Eighth	674	654	1,328	.190
Seventh	761	708	1,469	.210
Sixth	624	585	1,209	.173
Fifth	736	663	1,399	.200
Fourth	839	751	1,590	.227
Total	3,634	3,361	6,995	

NUMBER OF PUPILS IN THE PRIMARY SCHOOLS, DECEMBER, 1915

Year	Boys	Girls	Total	Per cent
Third	834	816	1.650	.311
Second	841	824	1,665	.313
First	1,039	954	1,993	.376
Total	2,714	2,594	5,308	

NUMBER OF PUPILS AND TEACHERS IN THE KINDERGARTENS

Year	Boys	Girls	Total	Number of Teachers
1911	606	503	1,109	28
1912	371	424	795	28
1913	377	368	745	29
1914	344	378	722	29
1915	343	380	723	30

NUMBER OF PUPILS IN THE PRIVATE SCHOOLS IN CAMBRIDGE, INCLUDING THOSE IN THE PAROCHIAL SCHOOLS

1910	1911	1912	1913	1914	1915
4,157	4,272	4,472	4,864	5,258	5,462

NUMBER OF AGE AND SCHOOLING CERTIFICATES ISSUED

1910	1911	1912	1913	1914	1915
870	853	752	1,671	1,112	1109
*285	*593	*1,080	*4,806	*5,509	*4691

*Issued to minors over sixteen years of age.

SUMMARY

Number of Pupils Belonging in December, 1915

Number of pupils in the High and Latin School	2,242
Number of pupils in the Rindge Technical School	642
Number of pupils in the Grammar Schools	6,995
Number of pupils in the Primary Schools	5,308
Number of pupils in the Kindergartens	723
Number of pupils in the Girls' Trade School	72
Number of pupils in the Open Air Rooms	88
Number of pupils in the Special Classes	96
Number of pupils in the Ungraded Classes	66
Number of pupils in the public schools, December, 1915	16,232
Number of pupils in the public schools, December, 1914	16,105
Increase of pupils, December, 1915	127

Increase of pupils, 1905	289
Increase of pupils, 1906	111
Increase of pupils, 1907	105
Increase of pupils, 1908	439
Decrease of pupils, 1909	124
Decrease of pupils, 1910	262
Decrease of pupils, 1911	305
Increase of pupils, 1912	174
Increase of pupils, 1913	407
Increase of pupils, 1914	196
Increase of pupils, 1915	127

NUMBER OF PUPILS REGISTERED IN THE EVENING DRAWING SCHOOLS, WITH THE AVERAGE ATTENDANCE

	1912-1913	1913-1914	1914-1915	1915-1916
Number registered.	98	147	96	90
Average attendance	53	57	60	46

NUMBER OF PUPILS REGISTERED IN THE EVENING INDUSTRIAL SCHOOL, WITH THE AVERAGE ATTENDANCE

	1912-1913	1913-1914	1914-1915	1915-1916
Number registered.	183	303	197	220
Average attendance	87	97	96	82

NUMBER OF PUPILS REGISTERED IN THE EVENING HIGH SCHOOL, WITH THE AVERAGE ATTENDANCE

	1912-1913	1913-1914	1914-1915	1915-1916
Number registered.	483	692	793	839
Average attendance	270	379	602	441

NUMBER OF PUPILS REGISTERED IN THE EVENING ELEMENTARY SCHOOLS, WITH THE AVERAGE ATTENDANCE*

	1912-1913	1913-1914	1914-1915	1915-1916
Number registered.	2,989	3,573	2,637	1,997
Average attendance	1,132	1,729	1,547	880

*Including the Evening Trade School for Women.

REMARKS ON THE STATISTICS

Attendance at the Day Schools

The number of pupils registered in the day schools during the year ending June 25, 1915, was 17,349, an increase of 215; the average number belonging was 15,581, an increase of 71; and the average attendance was 14,622, an increase of 248. The number of pupils belonging to the schools in December, 1915, was 16,232, an increase of 127 over the preceding year. The average increase for the past four years is 226.

Attendance at the High Schools

The number of pupils belonging to the high school in December, 1915, was 2,884, an increase of 408 over last year at the same time.

COST OF THE DAY SCHOOLS

Cost of Instruction

The cost of instruction in the day schools for the financial year from April 1, 1915, to April 1, 1916, which includes the salaries of teachers, superintendents, supervisors, agent, secretary, clerks, and attendance officers was $545,686.

Total Cost of Schools

The total cost of the day schools, which includes the cost of instruction, text-books and supplies, incidental expenses, care of truants, care of buildings (including fuel and light) and the transportation of pupils, was $664,001.18.

EVENING SCHOOLS

Attendance at the Evening Schools

The registration in the evening schools during the term from October 11, 1915, to the week ending March 25, 1916, was 3,148, a decrease of 575 over the preceding year; the average number belonging was 1,857, a decrease of 448; and the average attendance was 1,449, a decrease of 413.

Cost of the Evening Schools

The total cost of the evening schools, which includes the cost of instruction, text-books and supplies, and the care of buildings, including heat and light, was $19,256.23.

TABULAR VIEW

Teachers in Service, April, 1916

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
High and Latin School			
Leslie L. Cleveland	Head Master	Williams College, A.B.	Jan. 1910
Chester M. Bliss	Master	Amherst College, A.B., A. M.	Sept. 1907
Thomas L. Bramhall	"	Harvard University, A.B.	Sept. 1910
George H. Cain	Teacher	Potomac College, A.B.	Sept. 1909
Percy C. Campbell	"	Bates College, A.B.	Sept. 1911
Joseph A. Coolidge	"	Harvard University, A.B., A.M.	Mar. 1892
Cecil T. Derry*	"	Harvard University, A.B., A.M.	Oct. 1905
Timothy F. Downey	"	Harvard University, A.B.	Sept. 1912
George H. Glasheen	"	Fitchburg Business College (College of Business Administration, B U.)	Oct. 1914
Horace E. Jacobs	"	Brown University, A.B., A.M. (Medical School, 1 year)	Oct. 1915
James H. Leonard	"	Harvard University, A.B. (Law School 1 year. Graduate School 1 year)	Sept. 1915
Leo D. O'Neil	"	Boston College, A.B., A.M. (Columbia College 3 years)	Sept. 1915
John G. Wolcott	"	Harvard University, A.B.	Sept. 1915
Alice C. Baldwin	"	Wellesley College, A.B.	Sept. 1895
Margaret M. Ball	"	Lawrence University, Wis., A.B.	Feb. 1912
Margaret S. Bradbury	"	Radcliffe College, A.B.°	Jan. 1902
Alice M. Brown	"	Normal School of Gymnastics. (Special Courses)	Sept. 1910
Anna P. Butler	"	Trinity College, Washington, D. C. A.B.°	Sept. 1909
Isabel S. Burton	"	(Private schools and studied abroad)	Sept. 1899
Ethel E. Carr	"	Radcliffe College, A.B.	Sept. 1908
Alice D. Chamberlain**	"	Radcliffe College, A.B.	Sept. 1900
Caroline Close	"	Cambridge Training School. (Special Courses)	Nov. 1874
Bertha L. Cogswell†	"	Boston University, A.B., A.M.	Jan. 1894
Grace A. Coyle	"	Radcliffe College, A.B.	Sept. 1912
Gertrude H. Crook	"	Boston University, A.B. Radcliffe College, A.M.	Sept. 1896
Grace L. Deering	"	Maine Seminary (Courses abroad and at Radcliffe College)	Feb. 1892
Grace E. Dennett	"	Radcliffe College, A.B., A.M. Simmons College, S.B.	Sept. 1907
Mary L. Diehl	"	English High School. (Attended College of Commerce, Simmons College and Harvard Summer School)	April 1915

*Resigned June, 1911, and reappointed September, 1912.
**On leave of absence.
†On leave of absence for study or travel in accordance with the Rules of the School Committee.
°Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
High and Latin School-Con.			
Esther S. Dodge	Teacher	Boston University, A.B.	Oct. 1897
Margaret M. Dowd	"	Boston Normal Art School. (Special Courses)	Oct. 1912
Caroline Drew	"	(Special Courses and studied abroad)	Oct. 1888
Elizabeth M. Driscoll	"	Boston University, A.B.	Mar. 1914
Sara L. Fisher	"	Smith College, A.B.	Sept. 1910
Elizabeth B. Flanders	"	Framingham Normal Art School. (Courses at Radcliffe)	Sept. 1905
Louise A. Forrest	"	Boston University, A.B.	Feb. 1913
Florence H. French	"	Radcliffe College, A.B.	Nov. 1909
Edith M. Gartland	"	Radcliffe College, A.B.°	Sept. 1915
Mary C. Hardy	"	Smith College, A.B.	Dec. 1891
Lillian R. Hartigan	"	Emerson School of Oratory°	June 1915
Marie G. Hogan	"	Salem Normal School. (B. U. Extension Courses 2 years)	Sept. 1915
Elizabeth L. Huling	"	Radcliffe College, A.B., A.M.	Sept. 1905
Mabel F. Ivers	"	Salem Normal School	Sept. 1911
Catherine G. Kelley	"	Boston University, A.B.°	Sept. 1908
Helen M. Kelly	"	Fall River High School. (Radcliffe College 1 year. Simmons College 2 years)	Sept. 1915
Sarah W. Kelly	"	Wellesley College, A.B.	Feb. 1911
Lillian H. Kenney	"	Salem Normal School. (Special Courses)°	Mar. 1901
Irene L. Ketchum	"	Radcliffe College, A.B.° (Studied abroad)	Sept. 1915
Grace E. Knight	"	Wellesley College, A.B.°	April 1914
Maud A. Lawson	"	Radcliffe College, A.B.	Sept. 1892
Katherine B. Lyons	"	Radcliffe College, A.B.	Sept. 1915
Ethel M. MacLeod	"	Radcliffe College, A./B.°	Mar. 1906
Gertrude M. Mason	"	Gorham, Me., Normal School. Bryant and Stratton's Com. Col., Springfield, Mass.	Feb. 1912
Inez McCaffrey	"	Radcliffe College, A.B. (Post-graduate course at Brown University)	Sept. 191[illegible]
Mary R. McCarthy	"	Radcliffe College, A.B.	Sept. 1912
Ethel G. McElroy	"	Radcliffe College, A.B., A.M.	Sept. 1911
Henrietta E. McIntire	"	Radcliffe College, A.B., A.M.	Sept. 1891
Esther E. Morse	"	Boston University, A.B.	Sept. 1915
Jane O. Mosher	"	Boston University, A.B.°	Sept. 1911
Mary Moulton	"	(Attended Wellesley College 3 years. Special Courses and studied abroad)	Sept. 1890

°Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Mary E. Murray	Teacher	Cambridge Latin School. (Radcliffe College 2 years.) (Special Courses)	Sept. 1908
Louisa P. Parker	"	Westfield Normal School. (Courses at Radcliffe College)	Mar. 1881
Clessie P. Putnam	"	Bay Path Institute, N.B. Forbes Library Training Class, Northampton, Mass.	Sept. 1911
Mabelle C. Randall	"	(Seminary 3 years. Emerson School of Oratory 2½ years. Simmons College 1 year)	Sept. 1915
Jane G. Ricker	"	Cambridge Latin School. (Radcliffe College 2 years.) Special Courses. Studied abroad)	Sept. 1915
Lillian C. Rogers	"	Boston University, A.B.	Sept. 1893
Helene A. Roux	"	Ecole Normale, Paris. (Academy 4 years. Wellesley College 2 years.)	Sept. 1915
Eva M. Ruggli	"	Radcliffe College, A.B.	Feb. 1912
Hilda Russell	"	Wellesley College, A.B. Kindergarten Training School°	Sept. 1912
Olive K. Ryan	"	Tufts College, A.B.	Sept. 1911
Ethel V. Sampson	"	Radcliffe College, A.B.	Sept. 1899
Caroline A. Sawyer	"	Boston University, A.B., Radcliffe College, A.M.	Sept. 1886
Adele Schroder	"	Radcliffe College, 2 years. (Studied abroad)	Feb. 1916
Florence W. Smith	"	Radcliffe College, A.B.	Sept. 1897
Martha R. Smith	"	Boston Normal school. (Courses at Harvard and private courses)	Jan. 1882
Delia M. Stickney	"	Institute of Technology, S.B.	Sept. 1888
Jennie S. Spring	"	Smith College, A.B.	Mar. 1886
Annie F. Stratton	"	Radcliffe College, A.B.	Sept. 1899
Blanche E. Townsend	"	Salem Normal School. (Special Courses)	Sept. 1900
Agnes L. Tracy	"	Cambridge High School. (Radcliffe College, 3 years)	Oct. 1904
Anna M. Walsh	"	Smith College, A.B.°	Apr. 1914
Winifred A. Waters	"	Boston University, A.B.°	Sept. 1914
Mabel D. Watson	"	Radcliffe College, A.B.	Sept. 1901
Lucy T. White	"	Sargent School for Physical Education	April 1913

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
High and Latin School-Con.			
Alice S. Willoughby	Teacher	Mass. Normal Art School. (Radcliffe College, 1 year)	Mar. 1914
Madeleine Wood	"	Radcliffe College, A.B.°	Sept. 1907
Martha L. Babbitt	Sec. and Lib.	Cambridge Training School	May 1887
Katherine S. Carroll	Clerk and Sten.	Bryant and Stratton's Commercial College	Nov. 1914
Rindge Technical School			
John W. Wood, Jr.	Head Master	Harvard University, S.B.	Jan. 1899
James F. Conlin	Master	Harvard University, A.B., A.M.	Feb. 1905
Myra I. Ellis	Teacher	Cambridge Training School. (Berlin University)	Feb. 1878
Helen W. Metcalf	"	Mt. Holyoke College, A.B.	Sept. 1898
Gertrude B. Rogers	"	(Attended Colby College, 2 years) Tufts College, 2 years, A.B.	Feb. 1911
Anna R. Ward	"	Indiana State University, A.B.	Sept. 1909
Ingolf V. Bockmann	"	Norway Technical School. (Attended Sloyd Schools)	Feb. 1911
Edgar R. Breed	"	Mass. Normal Art School	Nov. 1912
Edward P. Chester	"	Clark College, A.B. (Attended Columbia College, 2 summers)	Nov. 1914
Burton L. Cushing	"	Institute of Technology	Oct. 1914
Joseph B. Davison	"	Malden High School	April 1909
Raymond A. FitzGerald	"	Harvard University, S.B.	Sept. 1913
George H. Gohlke	"	University of Wisconsin, B.L.	Sept. 1911
Evan W. Griffiths	"	Harvard University, A.B., A.M.	Sept. 1903
John C. Hall	"	Boston University, S.B.	Sept. 1908
Charles C. Jones	"	Warner, N. H., High School	Sept. 1911
Lester W. Ladd	"	Harvard University, B.A.S.	Sept. 1910
Charles A. Linehan	"	Harvard University, S.B.	Sept. 1914
David J. Malcolm	"	Harvard University, A.B.	Sept. 1915
Edward R. Markham	"	Wesleyan Academy. (Courses in Mechanical Engineering.)	Sept. 1903
James T. McElligott	"	Harvard University, A.B.	Sept. 1915
Joseph M. Norton	"	Dartmouth College, A.B.	Sept. 1899
Martin F. O'Connor	"	Boston College, A.B.	Sept. 1914
Abbott O. Paine	"	Rindge Manual Training School	Sept. 1915
Otis A. Philbrick	"	Mass. Normal Art School	Sept. 1911
Leverett L. Preble	"	(Private Instruction and Shop Experience. Special Courses)	Sept. 1910
Charles H. Richert	"	Boston Normal Art School	Dec. 1905
James G. Telfer	"	Common Schools	June 1889
Marion L. Pike	Secretary	Cambridge Latin School	Sept. 1909

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Girls' Trade School			
Katharine A. Burke	Principal	(Special Courses)	Oct. 1907
Annie M. Brady	Cooking and Sewing	Framingham Normal School	Dec. 1914
Anna C. Coleman	Dressmaking	(Dressmaking Establishment six years)	Sept. 1913
Mary K. Kelley	Academic	Framingham Normal School°	Nov. 1915
Adeline H. McCormick	Sewing	(Courses at Parker Memorial and Columbia College)	June 1915
Nina G. Moore	Cooking	Pratt Institute, Brooklyn, N. Y.	Mar. 1913
Helen F. Morton	Applied Design	Mass. Normal Art School	Apr. 1914
Nettie L. White	Sewing	(Special Courses at Columbia University)	Sept. 1915
Agassiz School			
Maria L. Baldwin	Principal	Cambridge High School (Courses at Harvard)*	Sept. 1882
Lillian M. Cuddy	7	Salem Normal School°	Dec. 1904
Ada M. Litchfield	6	Boston Normal School°	May 1891
Marion Beane	5	Mt. Holyoke College, A.B.	Jan. 1911
Frances W. Dawson	4	Bradford Academy. (Special Courses)	Sept. †1902
Clara W. Ruggli	4	Bridgewater Normal School. (Special College Course)°	Sept. 1900
Lucy A. Roper	3	Salem Normal School°	Sept. 1907
Susan L. Senter	3	Medway High School°	Sept. 1898
Rose M. Hill	2	Kindergarten Training School°	Sept. 1911
Katherine C. Hussey	2	Kindergarten Training School°	Nov. 1912
Grace C. Stedman	1	Cambridge High School. Kindergarten Training School	May 1896
Dorothy R. Duvey	Special	Kindergarten Training School°	Jan. 1915
Boardman School			
Elizabeth J. Karcher	Principal	Cambridge High School. (Special Courses)*	May 1881
Blanche M. Gould	3	Colby Academy, N. H. (Boston University, 2½ years)°	Oct. 1904
Pauline V. Casey	3	Framingham Normal School°	Sept. 1910
Malvina M. Joslin	2	Northfield, Vt., Normal School. (Hyannis Normal School. Summer Course)°	May 1891
Mary C. Ward	2	Salem Normal School°	Mar. 1911
Mabel E. Blake	1	North Andover High School. (Salem Normal School, 1 year)	Jan. 1892
Ruth M. Craig	1	Kindergarten Training School°	Sept. 1910
Sybil L. M. Cronin	1	Salem Normal School°	Sept. 1912

°Attended the Wellington Training School.
*Graduated from the Cambridge Training School.
†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Ellis School			
Frank M. Buckley	Master	Holy Cross College, A.B. Yale University, A.M. Columbia University	Sept. 1912
Ernest Libby	Submaster	Bridgewater Normal School. (Chicago University)	Sept. 1906
Caroline L. Blake‡	8	Wheaton College. (Special Courses)	Sept. 1894
Adelaide G. Bunker	8	Bridgewater Normal School	Nov. 1902
Katharine M. Greene	8	Salem Normal School°	Sept. 1904
Charlotte L. Griswold	8	New Britain Normal School. (Radcliffe College, 1 year)	Sept. 1894
Louise H. Griswold	8	Terryville High School. (Special Courses)	Sept. 1893
Mary A. Stephenson	8	Bridgewater Normal School°	Sept. 1898
Katharine L. Dolan	7	Salem Normal School°	Nov. 1898
Emma A. Faulkner	7	(Attended Keene, N. H., High School.) (Special Courses)	Oct. 1887
Flora C. Ingraham	7	Providence Normal School	Oct. 1888
Mary A. Macklin	7	Salem Normal School°	Dec. 1902
Mary T. Cashman	6-5	Salem Normal School°	Nov. 1915
Ellen J. Hunt	4	Salem Normal School. (Special Courses)	June 1883
Felton School			
C. Florence Smith	Prin. 3	Boston Normal School, (Harvard Summer School)°	Jan. 1888
Marcia R. Bowman	3-2	Framingham Normal School°	Sept. 1895
Carrie H. Smith	2-1	Cambridge High School*	Jan. 1875
Eleanor M. Stevens	1	Bangor, Me., Normal School°	Oct. 1903
Marion L. Smith	Open Air	Lowell Normal School°	Sept. 1912
Fletcher School			
George B. Colesworthy	Master	Bowdoin College, A.B. Harvard University, A.B.	Sept. 1903
Nellie A. Coburn	Master's Asst.	Lowell High School. (Attended Private Seminary)	Sept. 1901
Substitute	8-7	.....	.....
Alice M. Chamberlain	7	Salem Normal School°	Sept. 1913
Mary I. Chapin	6	(Attended Indiana Normal School)	Oct. 1904
Helena M. Maguire	6-5	Salem Normal School°	Jan. 1915
Frances E. Higgins	5	Cambridge High School	Sept. †1893
Elmira F. Hall	4	Cambridge High School°	May †1897
Gertrude M. Baker	4-3	Radcliffe College, A.B.°	Sept. 1905
Catherine Culhane	3	Kindergarten Training School°	Jan. 1915
Martha B. Perkins	3	Salem Normal School	Sept. 1904

°Attended the Wellington Training School.
*Graduated from the Cambridge Training School.
‡On leave of absence for study or travel in accordance with the Rules of the School Committee.
†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Fletcher School—Con.			
Marion Prescott	2	Cambridge English High School°	Oct. 1898
Elizabeth M. Delay	1	Framingham Normal School°	Jan. 1915
Margaret E. Jones	1	Kindergarten Training School°	Sept. 1913
Eva A. Taylor	1	Cambridge High School°	May 1886
Emma G. Wentworth	Ungraded	Salem Normal School°	Oct. 1902
Gannett School			
Mary A. Rady	Prin. 2	Normal School and School of Expression. (Special Courses)	Sept. 1880
Elizabeth A. Carroll	3	Framingham Normal School°	Jan. 1915
Annie M. Billings	1	Cushing Academy. (Attended Quincy Training School)	May 1893
Margaret M. McLaughlin	1	Lowell Normal School°	Nov. 1915
Sarah L. O'Reilley	1	Salem Normal School°	Jan. 1915
Gore School			
Mary E. Mulloney	Principal	Cambridge Training School. (Special Courses)	Sept. 1878
Catherine L. Dinneen	3	Salem Normal School°	Dec. 1908
M. Louise Kane	3	Kindergarten Training School	Sept. 1914
Anastasia R. Peters	3	Newton High School. (Special Courses)°	Oct. 1892
Irene C. Delay	2	Lowell Normal School°	Sept. 1913
Katharine L. McElroy	2	Salem Normal School	May 1888
Julia G. McHugh	2	Salem Normal School°	Oct. 1894
Anna E. Callahan	1	Salem Normal School	Sept. 1883
Marguerite F. Doherty	1	Lowell Normal School°	Sept. 1913
Kate A. Hegarty	1	Coburn, Me., Classical Institute. (Special Courses)	Sept. 1896
Frances M. Donovan	Ungraded	Kindergarten Training School°	Nov. 1912
Haggerty School			
Harold B. Blazo	Master	Harvard University, A.B.	Sept. 1910
Sarah C. McManama	Master's Asst.	Bridgewater Normal School°	Sept. 1907
Sigrid B. Aker	7	Kindergarten Training School°	Apr. 1914
Alice C. Sullivan	6	Fitchburg Normal School°	Nov. 1915
H. Maud Maclean	5	University of New Brunswick, B.A.°	Mar. 1896
Julia M. Davis	4	Baltimore High School. (Maryland Normal School, 1 year)	May 1900
Louise A. Kelley	3	Lowell Normal School°	Dec. 1911
Una G. Dawson	2	Danvers Boarding School. (College Extension Course)	Sept. 1912
Helen M. Reynolds	1	Lowell Normal School°	Nov. 1915

°Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Harvard School			
William L. MacGregor	Master	Richmond, N. S., High School. (Attended Hyannis Normal School)	Sept. 1906
Katharine L. Carr	Master's Asst.	Potsdam, N. Y., Normal School	Nov. 1901
Estella J. French	8	Cambridge High School. (Special Courses)*	Sept. 1872
Hortense O. Young	8	Fall River High School	Sept. 1883
Addie L. Bartlett	7	Castine, Me., Normal School. (Special Courses at Harvard)	Sept. 1890
Gertrude P. McCusker	7	Salem Normal School°	Sept. 1907
Elizabeth L. Setchell	7	Salem Normal School	Sept. †1888
Lucy E. Sullivan	7	Framingham Normal School	Nov. 1909
Frances Fabyan	6	Cambridge High School*	Jan. 1878
Annie B. Lowell	6	Portland, Me., Normal School	April 1898
Margaret M. Fearns	5	Salem Normal School°	Mar. 1897
Grace I. Nelligan	5	Salem Normal School°	Sept. 1911
Katherine F. Smith	5	Bridgewater Normal School°	Sept. 1912
Louise C. Patterson	4	Northampton High School. (College work at Harvard)	Dec. 1892
Marguerite L. Harris	4	Framingham Normal School°	April 1914
Carolyn E. Macdonald	4	Salem Normal School°	Jan. 1909
Annie M. Street	Special Teacher	Westfield Normal School. (Attended Summer Institute)	Sept. 1889
Agnes C. Doherty	Special Class	Kindergarten Training School°	Sept. 1913
Honora F. O'Brien	Special Class	Gloucester High School. (Attended Boston Normal School)	Sept. 1909
Houghton School			
James E. White	Master	Bridgewater Normal School. Sloyd School. (Special Courses)	Jan. 1906
R. Emily Penney		Salem Normal School°	June 1893
Winifred L. Kinsley	7	Boston Normal School°	Sept. †1888
Margaret J. Penney	7	Cambridge High School. (Special Courses)*	April 1882
Katharine F. Callahan	6	Salem Normal School°	Nov. 1903
Hattie Shepherd	6	Cambridge High School. (Special Courses)*	Sept. 1882
Mary L. Edmunds	5	Salem Normal School°	Jan. 1915
Mary T. Shea	5-4	Lowell Normal School°	Sept. 1912
Grace S. Beckwith	4	Westfield Normal School. Special Courses)°	Sept. †1904
Mary G. Snow	4-3	Salem Normal School°	Sept. 1905
Helene M. Seils	3	Salem Normal School°	Sept. 1909
Elizabeth A. Tower	3	Cambridge High School*	Dec. 1870

°Attended the Wellington Training School.
*Graduated from the Cambridge Training School.
†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Houghton School—Con.			
Jennie E. Brooks	2	Salem Normal School°	Sept. 1910
Mary F. Fitzgerald	2	Salem Normal School°	Sept. 1912
Amanda M. Alger	1	Cambridge High School*	May 1880
Ethel M. Cooper	1	Lowell Normal School°	Nov. 1915
Elizabeth M. Kline	1	Salem Normal School°	Sept. 1912
Kelley School			
H. Warren Foss	Master	Colby College, Me., A.B. (Courses at Harvard)	Sept. 1904
Francis J. O'Hara	Submaster	Boston College, A.B., A.M. Boston Normal School	Sept. 1912
Catharine A. McLean		Salem Normal School°	Oct. 1899
Emma J. Houlahan	7	Salem Normal School°	Sept. 1903
Esther D. Paul	7-6	Boston University, A.B.°	Oct. 1899
Ellen A. Kidder	6	(Teachers' Courses and Summer Courses at Harvard)°	Oct. 1890
Maude M. Dutton	5	Bridgewater Normal School°	Oct. 1899
Margaret B. McCullough	4	Salem Normal School°	Sept. 1908
Grace F. Mullins	4	Salem Normal School°	Jan. 1915
Mary E. Regan	4-3	Salem Normal School°	Oct. 1899
Julia M. Horgan	3	Salem Normal School°	Sept. 1908
Margaret F. Sanderson	3	Salem Normal School°	Nov. 1900
Ellen T. Carroll	2	Kindergarten Training School°	Sept. 1907
Elsie H. Cooter	2	Salem Normal School°	Sept. 1908
Olive L. Cook	1	Framingham Normal School. (Summer Courses)	April 1905
Eva G. Oakes	1	Warren High School. (Martha's Vineyard Summer School, 5 years)°	Oct. 1898
Helena O'Loughlin	1	Lowell Normal School°	Nov. 1915
Mary L. Feeny	Special Class	Salem Normal School°	Sept. 1907
Lowell School			
Maude A. Deehan	Principal	Portland, Me., Normal School. (Special Courses)	Dec. 1893
Abbie M. McNiff	5-4	Fitchburg Normal School	Apr. 1916
Helen M. Long	3-2	Salem Normal School°	Jan. 1915
Substitute	1	.....	.....
Merrill School			
Louise W. Harris	Principal	Cambridge High School. (Special Courses)*	Jan. 1876
Katharine Pendergast	3	Warren High School°	Sept. 1909
Nellie F. Walker	3	Kennebunk, Me., High School. (Attended Com. College)	Sept. 1899
Margaret F. Dwyer	2	Kindergarten Training School	Feb. 1914

*Graduated from the Cambridge Training School.
°Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Merrill School—Con.			
Henriette E. de Rochemont	2	Portsmouth, N. H., Normal School	Sept. 1894
Marion B. Magwire	1	Framingham Normal School°	June 1894
Gertrude S. Thayer	1	Salem Normal School°	Sept. 1903
Morse School			
Mary A. Townsend	Master	Farmington, Me., Normal School (Summer Courses and Private Lessons)	April 1882
Mary E. Towle		Westfield Normal School. (Summer Courses and Private Lessons)	Feb. 1874
Clintina E. Curtis	8	Plymouth, N. H., Normal School	Dec. 1907
Florence E. Hunter	7	Castleton, Vt., Normal School. (Troy Conference Academy, 3 years). (Summer Schools)	Feb. 1900
Anna A. O'Connell	7	Bridgewater Normal School. (University and Private Courses)°	Sept. 1900
Lucy M. Soulee	6	Everett High School	Sept. 1893
Elizabeth H. Richards	5	Robinson Seminary, N. H.°	Jan. 1899
Alice E. May	5-4	Bridgewater Normal School	Oct. 1893
Edith M. Carman	4	Salem Normal School°	Dec. 1904
Bertha J. Waldron	3	Susquehanna Collegiate Institute	Sept. 1904
Mary E. Warren	3	Lawrence Academy, Groton. (Hyannis Normal and N. Adams Training Schools)	Jan. 1902
Elizabeth J. Baldwin	2	Boston Normal School°	Jan. 1886
Christina R. Denyven	2	Bridgewater Normal School. (Special Courses)°	Jan. 1888
Anna L. P. Collins	1	(Attended Plymouth, N. H., Normal School)	Sept. 1893
Alice A. Harrington	1	Salem Normal School°	Nov. 1915
Grace E. Lally	1	Boston Normal School°	Jan. 1909
Ida J. Holmes	Special Teacher	R. I. Normal School. (Summer Courses and Private Lessons)	Sept. 1895
Parker School			
Mary A. Knowles	Principal	Billerica High School. (Special Courses)	Sept. 1897
Rose M. O'Toole	3	Fitchburg Normal School. (Post-Graduate Course, 2 years)	Jan. 1910
Mary A. O'Callaghan	2	Cambridge English High School. (Attended Salem Normal School)	Sept. 1913

°Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment.
Parker School—Con.			
Agnes Marchant	1	Mt. Holyoke Seminary. Bridgewater Normal School. (Special Courses)	Oct. 1894
Mary F. Delaney	1	Salem Normal School†	Jan. 1915
Peabody School			
Harold Lawton	Master	Harvard University, A.B.	Sept. 1912
Anna F. Bellows	Master's Asst.	Lancaster Academy	Sept. 1889
Frances F. Curtis	8	Bridgewater Normal School. (Special Courses)	Mar. 1898
Helen A. Abbott	7	Radcliffe College, A.B.°	Sept. 1911
Susan C. Allison	7	Cambridge High School. (Attended Boston Normal School)°	Sept. 1889
Bernice E. Bartlett	6	Emerson School of Oratory°	Sept. 1907
Anna H. Welsh	5-6	(Attended Wellesley College 2 years)°	Sept. 1901
Blanche C. Trefethen	5	Normal Department, Robinson Seminary°	Mar. †1895
Tina M. King	4-5	Bridgewater Normal School°	Sept. 1908
Butella E. L. Conland	4	Randolph, Vt., Normal School	Dec. 1898
Minnie H. Ketchum	3	Kindergarten Training School°	Sept. 1913
Susan E. Wyeth	3	Cambridge High School	Mar. 1869
Mary A. Burke	2	Salem Normal School°	Sept. 1885
Edith F. Pulsford	2	Kindergarten Training School°	Sept. 1910
Maude E. Brown	1	Kindergarten Training School°	Jan. 1915
Clara A. Goodere	1	Fitchburg Normal School	Jan. 1910
Josephine C. Wyman	Special Teacher	Farmington, Me., Normal School	Apr. 1903
Putnam School			
Frederick B. Thompson	Master	Teachers' School of Science. Bridgewater Normal School	Nov. 1894
Maude M. Mixer	Master's Asst.	Teachers' School of Science. Bridgewater Normal School	Sept. 1905
Sarah M. Grieves	8	Cambridge High School*	Oct. 1882
George F. Fitzgerald	7	Boston College, A.B. (Boston Normal School)	Sept. 1915
Margaret F. O'Keefe	7	Salem Normal School°	Sept. 1900
Annie M. R. Sturtevant	7	Wellesley College, A.B.°	Dec. 1907
Martha Chisholm	6	Gloucester Training School. (Special Courses)	Sept. 1907
Jane E. McKearin	6	Wellesley College, A.B.°	Sept. 1907
Lena L. Ramhofer	6	Salem Normal School°	Sept. 1912
Frances S. Garaway	5	Framingham Normal School°	Nov. 1911
Florence A. Hickey	5	Salem Normal School°	Sept. 1912
Mary A. Carmichael	4	Salem Normal School°	Feb. 1889
Annie A. Trelegan	4	Salem Normal School. (Special Courses)°	Dec. 1891
Nellie A. Kerrigan	(Pre-Vocational Class)	Salem Normal School°	Oct. 1904

°Attended the Wellington Training School.
*Graduated from the Cambridge Training School.
†Resigned for one year and was reappointed.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Reed Open Air School			
Agnes J. McElroy	Principal	Salem Normal School°	Dec. 1891
Alice G. Dacey	Teacher	Salem Normal School°	Jan. 1909
Winifred B. Goodwillie	"	Salem Normal School. (Summer Courses)°	Mar. 1906
Eleanor B. Rock	"	Kindergarten Training School°	April 1914
Roberts School			
W. Mortimer MacVicar	Master	Acadia College, N. S., A.M. (Harvard Graduate School, 2 years)	Sept. 1900
Sara A. Bailey	Master's Asst.	Caledonia Academy, Vt. (Special Courses)	May 1884
Dora Leadbetter	8	Framingham Normal School. (Courses at Harvard)	Sept. 1906
Caroline M. Williams	8	Cambridge High School*	Sept. 1880
Mary E. Flahaven	7	Lowell Normal School°	Sept. 1913
M. Louise Gallagher	7	Bridgewater Normal School°	Jan. 1915
Bessie W. C. Fuller	6	Vermont Academy, 2 years. (Hyannis Normal School, 2 summers)	Sept. 1909
Evelyn B. Kenney	6	Maine Normal School	Nov. 1886
Lucy S. Carter	5	Lowell Normal School	April 1910
Sarah E. Magurn	5	Framingham Normal School°	Sept. 1907
Mary M. Brigham	4	Winchendon High School. (Special Courses)	April 1882
Anna E. Dailey	4	Salem Normal School°	Sept. 1910
Winifred M. D. Nolan	4	Lowell Normal School°	Sept. 1912
Grace E. Dalton	Open Air	Salem Normal School°	Nov. 1915
Mary E. Quirk	Ungraded	Salem Normal School°	Feb. 1910
James M. Nelligan	Pre-Vocational Class	Holy Cross College, A.B. (Harvard College, 1 year)	Sept. 1915
Russell School			
Arthur C. Wadsworth	Master	Harvard University, S.B. Wooster Univ., Ohio, A.M., Ph.D. Bridgewater Normal School	Sept. 1897
Mary S. Bingham	Master's Asst.	Salem Normal School. (Special work at Radcliffe)	Sept. 1904
Ida J. Mahoney	8	Framingham Normal School°	April 1903
Fannie P. Browning	7	Fitchburg High School	Sept. 1880
Marguerite E. Porter	7	Framingham Normal School°	Oct. 1911
Sara S. Coyne	6	Salem Normal School°	Feb. 1912
Josephine F. Rowe	6	Salem Normal School°	Mar. 1909
Annie W. Cooper	5	Salem Normal School°	Sept. 1911
Claire M. Sullivan	4	Salem Normal School°	Sept. 1910
Alice V. Connelly	3	Salem Normal School°	Sept. 1908
Katharine F. Walsh	2	Salem Normal School°	Sept. 1912

°Attended the Wellington Training School.
*Graduated from the Cambridge Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Russell School—Con.			
Carrie J. Allison	1	Cambridge High School. (Private School)°	Sept. 1896
Alice Ford Sullivan	1	Kindergarten Training School°	Jan. 1915
Shepard School			
Anna E. Welch	Principal	Salem Normal School°	Sept. 1904
Florence M. Dudley	7	Salem Normal School°	Dec. 1897
Alice M. Gage	7	High School. (Mt. Holyoke College, 2 years)	Mar. 1899
Mary F. Calnane	6	Salem Normal School	Dec. 1896
Theresa H. Mahoney	6	Framingham Normal School°	Sept. 1898
Agnes K. Geary	5	Salem Normal School°	Jan. 1909
Anna G. Scannell	5	Salem Normal School	Sept. 1905
Nettie I. Haff	4	Salem Normal School°	Sept. 1906
Marguerite M. O'Callaghan	4	Radcliffe College, A.B.°	Sept. 1914
Florence T. Hogan	3	Lowell Normal School°	Sept. 1913
Gertrude T. Sullivan	3	Salem Normal School°	Dec. 1902
Marjorie H. Lenox	Special Class	Salem Normal School°	Sept. 1906
Sleeper School			
Elizabeth G. Nelligan	Principal	(Attended Salem Normal School)°	Dec. 1899
Melissa M. Lloyd	6	Charlestown High School. (Special Courses)	Sept. †1893
Cora B. Poole	5-4	Salem Normal School°	Feb. 1906
Evelyn M. Dormer	4	Salem Normal School°	Dec. 1897
Katherine A. Mahoney	3	Salem Normal School°	Sept. 1913
Mary A. Maguire	3-2	Salem Normal School°	Sept. 1913
Catherine M. Herlihy	2	Salem Normal School°	Sept. 1913
Margaret W. Murphy	2-1	Kindergarten Training School°	Jan. 1915
Mary R. Harrington	1	Salem Normal School°	Oct. 1910
Tarbell School			
Carrie P. Pierce	Prin. 2	Gloucester High School. (Salem Normal School, 1 year) (Special Courses)°	Oct. 1890
Millie A. Isaac	3	Salem Normal School°	Sept. 1909
Mary S. Redican	2	Kindergarten Training School°	Sept. 1915
Anna F. Moran	1	Kindergarten Training School°	Sept. 1911
Lillian M. Tynes	1	Salem Normal School°	Sept. 1913
Taylor School			
Mary A. Boland	Principal	Salem Normal School. (Special Courses)°	Jan. 1898
Emma M. Goodwin	5	Farmington, Me., Normal School	Feb. 1910
Mary A. Lincoln	5	Bridgewater Normal School	Oct. 1912

°Attended the Wellington Training School.
†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Taylor School—Con.			
Marietta A. McNamara	4	Cambridge High School. (Attended Salem Normal School)	Nov. 1912
Mary R. Collins	3-2	Lowell Normal School°	Sept. 1914
Gertrude A. Murphy	3	Salem Normal School°	Sept. 1912
Alice W. Gaughan	2	Salem Normal School°	Mar. 1911
Elizabeth D. Pierce	2-1	Kindergarten Training School°	Sept. 1913
Annie A. Rea	1	Castine, Me., Normal School	Sept. 1909
Mary A. O'Toole	Special Class	Lowell Normal School°	Dec. †1912
Thorndike School			
James Dugan	Master	Amherst College, A.B.	Jan. 1910
Charles M. Herlihy	Submaster	Boston College, A.B., A.M. Boston Normal School	Sept. 1914
Harriet A. Townsend	Master's Asst.	Framingham Normal School. (Special Courses)	Sept. 1887
Eleanor E. O'Brien	7	Salem Normal School°	Sept. 1909
Mary E. Bousquet	6	Salem Normal School°	Sept. 1909
Margaret M. Carroll	6	Salem Normal School°	Sept. 1911
Grace W. Fletcher	5	Cambridge High School*	Feb. 1874
Gertrude R. O'Hara	4	Salem Normal School°	Oct. 1910
Jennie L. Powell	4	Salem Normal School°	Sept. 1911
Minnie A. Doran	3	Salem Normal School. (Special Courses)°	Sept. 1895
Gertrude H. Glavin	3	Bridgewater Normal School	Nov. 1909
Julia S. Lewis	2	Framingham Normal School°	Nov. 1909
Anna N. Sullivan	2	Boston Normal School°	Mar. 1901
Julia A. Walsh	2	Salem Normal School°	Sept. 1910
Frances Allen	1	Cambridge High School*	Jan. 1873
Elizabeth B. Gahm	1	Cambridge High School. (Special Courses)*	Sept. 1882
Rose C. Smith	Open Air	Salem Normal School°	Sept. 1914
Luella M. Marsh	Open Air	Cambridge High School*	Feb. 1884
Helen C. Ready	Cooking	Simmons College	June 1913
Charlotte M. Cairnes	Special Class	Salem Normal School°	Nov. 1915
Laura S. Westcott	Pre-Vocational Class	Boston Normal School. (Special Courses)	Sept. 1884
Webster School			
John D. Billings	Master	Bridgewater Normal School. Boston Sloyd Training School. Tufts College A.M. (Honorary)	Sept. 1872
John H. Graham	Submaster	Bridgewater Normal School. (Extension Courses of Boston University)	June 1913
Alice C. Phinney	Master's Asst.	(Attended Bridgewater Normal School)	Oct. 1881

°Attended the Wellington Training School.
*Graduated from the Cambridge Training School.
†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Webster School—Con.			
Charlotte M. Chase.	8	Cambridge Training School. (Special Courses)	Sept. 1873
Martha N. Hanson	8	(Attended N. H. Normal School)	Mar. 1890
Honora A. Connell	7	Salem Normal School°	Sept. 1910
Josephine Hills	7	Framingham Normal School	Sept. 1893
Nora P. Nason	7	Gorham, Me., Normal School. (Special Courses)	Dec. 1906
Harriette E. Shepard	7	Salem Normal School. (Special Courses)°	Oct. 1890
Olive L. Slater	7	Westfield Normal School	Sept. 1899
Mabel T. Ashley	6	Framingham Normal School	Sept. 1896
Fannie M. Field	6	Bridgewater Normal School	Sept. 1909
Josephine S. Furfey	6	Salem Normal School°	Sept. 1913
Agnes E. Corry	5	Lowell Normal School°	April 1914
Katherine I. Moran	5	Salem Normal School°	Sept. 1914
Eleanor S. O'Connor	5	Salem Normal School°	Sept. 1912
Minnie V. Reid	5	Boston Normal School°	Sept. 1888
Lillian G. Rose	5	Lowell Normal School. School of Expression°	Sept. 1912
Gertrude E. Corry	4	Lowell Normal School°	Jan. 1912
Gertrude I. Johnson	4	Worcester Normal School	Sept. 1901
Mary H. Manning	4	Salem Normal School°	Sept. 1913
Mary A. O'Connor	4	Salem Normal School°	Nov. 1915
Hilda L. Reycroft	4	Framingham Normal School°	Sept. 1914
Louise Wingate	4	North Adams Normal School°	Sept. 1912
Gertrude B. Duffy	(Pre-Vocational Class)	Salem Normal School. (Special Courses at Harvard and Simmons College)	April 1902
Ada A. Billings	Special Teacher	Bridgewater Normal School	Sept. 1889
Wellington School			
Herbert H. Bates	Master	Westfield Normal School. (Special Courses)	Oct. 1883
Mary I. Vinton	Supervisor	Salem Normal School. (Special Courses)	Mar. 1881
Margaret Kidd	Supervisor	Cambridge High School. (Special Courses)*	Sept. 1880
Carrie M. Stevens	Master's Asst.	Farmington, Me., Normal School (Special Courses)	Nov. 1894
Grace F. Chamberlain	8	Framingham Normal School. (Teachers' School of Science)	April 1903
Nina L. Kendall	8	Randolph, Vt., Normal School	Sept. 1909
Ellen C. Doherty	7	Radcliffe College, A.B.°	Sept. 1915
Agnes P. Goggin	7	Boston University, A.B. (Boston Normal School, 1 year)°	Sept. 1915

°Attended the Wellington Training School.
*Graduated from the Cambridge Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Wellington School—Con.			
Ellen C. Connell	6	Boston Normal School°	Feb. 1916
Florence M. Feeley	6	Radcliffe College°	Sept. 1915
Marion W. Sharkey	5	Radcliffe College, A.B.°	Sept. 1915
Mildred F. Reinhalter	Ungraded	Bridgewater Normal School°	Apr. 1914
Ellen A. Sullivan	Clerk	Salem Normal School°	Sept. 1905
Training Class			
Natalie A. Browning	Substitute	Radcliffe College, A.B.°	
Emily S. Coolidge	Substitute	Radcliffe College, A.B.°	
Margaret G. Cronin	Substitute	Fitchburg Normal School°	
Margaret C. Fitzgerald	Substitute	Mass. Normal Art School°	
Mildred A. Murray	Substitute	Lowell Normal School°	
Gertrude T. Noyes	Substitute	Lowell Normal School°	
Helena R. Riley	Substitute	Lowell Normal School°	
Willard School			
Katharine E. Hayes	Principal	Framingham Normal School	Sept. 1902
Lucy F. Cline	3	Kindergarten Training School°	Oct. 1910
Mary E. G. Harrington	3	Cambridge High School*	April 1831
Annie M. Sands	3	Bridgewater Normal School°	Nov. 1905
Eliza D. Watson	3	High School. (Course at Boston University)	Sept. †1888
Elizabeth M. Crowley	2	Salem Normal School°	Dec. 1901
Caroline A. Sullivan	2	Kindergarten Training School°	Nov. 1912
Grace R. Woodward	2	Cambridge High School*	Oct. 1874
Agalina Aldrich	1	Cushing Academy. (Wellesley College, 2 years)	Sept. 1901
Bertha E. Cook	1	Kindergarten Training School°	Jan. 1915
Evelyn S. Crowell	1	Kindergarten Training School°	Sept. 1912
Ella F. Gulliver	1	Eastern Normal School, Me.	April 1886
Catherine T. Murphy	1	Salem Normal School°	Nov. 1915
Wyman School			
Elizabeth J. O'Keefe	Principal	Kindergarten Training School°	Oct. 1905
Ellen T. O'Keefe	3	Boston Normal School°	Sept. 1903
Harriet R. Harrington	2	St. Johnsbury Academy. (Special Courses)°	Sept. 1897
Agnes L. Moran	2	Salem Normal School°	Sept. 1909
Mary H. Brooks	1	Bridgewater Normal School°	Sept. 1898
Genevieve S. Flint	1	Dean Academy. Worcester Normal School°	Nov. 1892
KINDERGARTENS			
Agassiz			
Florence Rice	Kindergartner	Kindergarten Training School. (Radcliffe College, 2 years)	Sept. 1899
Ethel C. French	Asst. "	Kindergarten Training School	Sept. 1915

°Attended the Wellington Training School.
*Graduated from the Cambridge Training School.
†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Boardman			
Annie L. Crane	Kindergartner	Kindergarten Training School	Dec. 1904
Jane S. Feeny	Asst. "	Kindergarten Training School°	Feb. 1916
Burleigh Street			
Helen N. Hicks	Kindergartner	Kindergarten Training School°	Sept. 1910
Gannett			
Carrie E. Shepherd	Kindergartner	Kindergarten Training School (Special Courses)	Sept. 1897
Gore			
Selma E. Berthold	Kindergartner	Kindergarten Training School	Sept. 1889
Lillian A. McCarthy	Asst. "	Kindergarten Training School°	Sept. 1913
Haggerty			
Carita B. Dickson	Kindergartner	Kindergarten Training School	Apr. 1907
Frances E. Fitzgerald	Asst. "	Kindergarten Training School	Nov. 1915
Houghton			
Marion L. Akerman‡	Kindergartner	Kindergarten Training School	Apr. 1900
Mary A. McMahon	"	Kindergarten Training School	Oct. 1911
Helen F. Lister	Asst. "	Kindergarten Training School°	Jan. 1915
Lowell			
Melinda Gates	Kindergartner	Kindergarten Training School (Berlitz School)	Sept. 1889
Merrill			
Caroline A. Leighton	Kindergartner	Kindergarten Training School (Special Courses)	Sept. 1896
Parker			
Anna D. Francis	Kindergartner	Kindergarten Training School°	Jan. 1906
Peabody			
Irene L. Phelps	Kindergartner	Kindergarten Training School°	April 1904
Mary S. Dempsey	Asst. "	Kindergarten Training School°	Sept. 1912
Shaw			
Harriette E. Ryan	Kindergartner	Kindergarten Training School° (Post-Graduate Courses)	Sept. 1889
Edwina P. Quincy	Asst. "	Kindergarten Training School°	Sept. 1914
Sleeper			
Mabel S. Adams	Kindergartner	Kindergarten Training School	Oct. 1893
Rosa M. Kelley	Asst. "	Kindergarten Training School°	Sept. 1913
Taylor			
Mary F. Leland	Kindergartner	Kindergarten Training School	Mar. 1896
Helen F. Dogherty	Asst. "	Kindergarten Training School°	Sept. 1911

°Attended the Wellington Training School.

‡On leave of absence for study or travel in accordance with the rules of the School Committee.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appointment
Webster			
Jennie S. Clough	Kindergartner	Kindergarten Training School	Sept. 1897
Wellington			
Gertrude M. Gove‡	Kindergartner	Kindergarten Training School	May 1893
Gertrude L. Bunton	"	Kindergarten Training School°	Oct. 1910
Lillian S. Boothe	Asst.	Kindergarten Training School°	Sept. †1912
Willard			
Dorothea Cutler	Kindergartner	Kindergarten Training School°	Sept. 1909
Isabel M. Nash	Asst. "	Kindergarten Training School°	Jan. 1915
Wyman			
Clara A. Hall	Kindergartner	Kindergarten Training School° (Special Courses)	May 1892
Beatrice Kelley	Asst. "	Kindergarten Training School°	Sept. 1913
SPECIAL SUBJECTS			
Manual Training and Pre-Vocational Classes			
Emma F. Cutter	Thorndike	Boston Sloyd Training School	Mar. 1914
Dennis H. Haverty	Putnam	Fitchburg Normal School	Nov. 1914
Frank P. Kelly	Roberts and Wellington	Mass. Normal Art School	Mar. 1913
John E. Howard	Webster	Sloyd Training School. Law School	Sept. 1911
Music			
John B. Whoriskey	Director	(Special Courses in vocal and instrumental music)	Feb. 1911
Mabel T. Hackett	Assistant	Worcester Normal School. (Special Courses in vocal and instrumental music)	Sept. 1912
Practical Art			
Peter Roos	Director	(Courses in Sweden and in the Boston Normal Art School	Oct. 1896
Lucia N. Jennison	Assistant	Worcester Normal School Boston Normal Art School	Dec. 1893
Special Teacher at Agassiz Museum			
Mary N. Flewelling	Teacher	Salem Normal School°	Oct. 1904
Classes for Stammerers			
Sallie A. Brooks	Teacher	Kindergarten Training School°	Sept. 1913

Teachers of Sewing..... Agnes Gordon, Director
Edith T. Bates
Maude E. Delorme
Alice H. Nay‡
Mary J. Smith
Minnie F. Wilson

°Attended the Wellington Training School.
†Taught previous to this and resigned.
‡On leave of absence.

TABULAR VIEW—Continued.

Superintendent of Schools	Michael E. Fitzgerald
Supervisor of Primary Schools and Kindergartens	Alice V. McIntire
Business Agent	Constantine J. Church
Secretary and Clerk	Elizabeth S. O'Connor

Clerks	Daniel J. Lynch
	Althea B. Frost
	Helen C. Butler
	Ellen B. Wait
Porter	John H. Lemon
Attendance Officers	Lucian S. Cabot
	Dennis F. Hurley
	William H. Porter
	James H. Shuckrowe
	John J. Sullivan
	Edward J. Walsh

TEACHERS AND OFFICIALS PENSIONED BY THE CITY

Agent	Sanford B. Hubbard
Master Emeritus, Ellis School	Edward O. Grover
" " Thorndike School	Ruel H. Fletcher
Teachers, High School	Emma A. Scudder
Elementary Schools	Ella R. Avery
" "	Mary P. Blair
" "	Sally N. Chamberlain
" "	Ellen A. Cheney
" "	Josephine M. Doherty
" "	Susan M. Doe
" "	Mary A. Driscoll
" "	Georgianna P. Dutcher
" "	M. Elizabeth Evans
" "	Charlotte A. Ewell
" "	Mary M. Gilman
" "	Sarah J. Gunnison
" "	Nellie A. Hutchins
" "	Annie B. Josselyn
" "	Ellen M. Leighton
" "	Evelyn J. Locke
" "	Eliza S. Paddack
" "	Frances E. Pendexter
" "	Emily R. Pitkin
" "	Julia A. Robinson
" "	Mary E. Sawyer
" "	Abby S. Taylor
" "	Lydia A. Whitcher

TEACHERS AND OFFICIALS PENSIONED FROM THE STATE RETIREMENT FUND

Supervisor of Primary Schools	Mary A. Lewis
Elementary Schools	Ellen M. Plympton
" "	Eusebia A. Minard
" "	Ida G. Smith

SALARY SCHEDULE OF TEACHERS AND SCHOOL OFFICERS

Cambridge High and Latin School

	Minimum	Increase Per Year	No. of Years	Maximum
Head Master	$2,520	$120	6	$3,240
Masters	2,040	120	2	2,280
Heads of Departments—male	1,800	120	2	2,040
Instructors	1,200	120	5	1,800
Heads of Departments—female	1,020	120	3	1,380
Teachers	840	60	7	1,260

Rindge Technical School

Head Master	$2,520	$120	6	$3,240
Instructors	1,440	120	3	1,800
Teachers—male	1,020	120	4	1,500
Teachers—female	840	60	7	1,260

Trade School

Principal	$1,020	$120	3	$1,380
Heads of Departments	888	60	3	1,068
Teachers	828	60	3	1,008

Wellington Training School

Master	$2,400	$120	5	$3,000
Supervisors	960	60	5	1,260
Master's Assistant	840	60	5	1,140
Assistants, 8th Grade	768	60	5	1,068
Assistants	588	60	7	1,008

Elementary Schools

Masters	$2,040	$120	5	$2,640
Submasters—Grammar Schools	1,200	120	5	1,800
Masters' Assistants	840	60	5	1,140
Principals—9 rooms or more	960	60	6	1,320
Principals—8 rooms or less	768	60	6	1,128
Teachers of 8th Grade	768	60	5	1,068
Teachers	588	60	7	1,008

Kindergartens

Teachers	$576	$60	7	$996
Assistants	504	60	6	864

Music

Director	$1,920	$60	5	$2,220
Assistant	708	60	6	1,068

Drawing

Director	$1,920	$60	5	$2,220
Assistant	708	60	6	1,068

SALARY SCHEDULE OF TEACHERS AND SCHOOL OFFICERS—Concluded

Sewing

	Minimum	Increase Per Year	No. of Years	Maximum
Director	$756	$60	5	$1,056
Teachers	576	60	7	996

Manual Training

Teachers	$840	$60	7	$1,260

Secretaries and Librarians

Each	$600	$24	5	$720

Attendance Officers

Each	$900	$100	5	$1,400

(Note: Teachers entering the service of the Cambridge public schools for the first time with outside experience, shall be given chedit on the salary schedule by the following rule:

Three years of experience outside of the city will be considered as equivalent to one year of experience in the city, but in no case shall a teacher be credited with more than five years of experience.)

SALARIES OF OFFICERS

Superintendent of Schools	$5,000
Special Assistant to the Superintendent	1,500
Supervisor of Primary Schools	1,140
Supervisor of Kindergartens	1,096
Business Agent	1,800
Secretary	200

SUBSTITUTES

The pay of a substitute teacher in a high school, who is employed temporarily, is $2.50 a day; if employed one month or more, it is at the rate of $500, $600 or $700 a year, the rate to be determined by the superintendent, who shall consider the experience of the teacher and the position to be filled in fixing the sum.

The pay of a teacher who is employed temporarily as a substitute in a grammar school, a primary school or a kindergarten, is $1.00 a session; if employed one month or more, it is at the rate of $510 a year.

EVENING SCHOOLS

Evening High School

		Per Evening
Master:	Minimum	$5.00
	Maximum	6.00
Teachers:	Minimum	2.00
	To teachers during the first year of service in Evening Schools.	
	Maximum	2.50
	To teachers of five or more years' experience in day schools; to teachers of less than five years' experience in day schools after one year of service in Evening Schools, and to teachers without day school experience after two years of service in Evening Schools.	

Rindge Evening Industrial School.

Master:	Minimum	4.00
	Maximum	5.00
Industrial Teachers:	Minimum	3.00
	Maximum	4.00
Drawing Teachers		3.00

Elementary Schools.

Principals		3.50
Academic Teachers:	Minimum	1.50
	To teachers during first year of service in Evening Schools.	
	Maximum	2.00
	To teachers of five or more years' experience in day schools; to teachers of less than five years' experience in day schools after one year of service in Evening Schools, and to teachers without day school experience after two years of service in Evening Schools.	
Industrial Teachers:	Minimum	1.50
	To teachers during first two years of service.	
	Maximum	2.00
	To teachers who have been in Evening School service for two years.	
Director of Practical Arts		3.00
Teachers, Girls' Trade School		2.00

Clerks in Evening Schools.

Evening High School	2.00
Evening Elementery Schools	1.50

SCHOOL CALENDAR

1915-1916

The First Term: From September 8 to December 23.
The Second Term: From January 3 to April 28.
The Third Term: From February 28 to April 28.
The Fourth Term: From May 8 to June 29 with the morning session.

1916-1917

The First Term: From September 13 to December 23.

SCHOOL HOLIDAYS

Columbus Day; Thanksgiving Day, the day preceding and the day following; Washington's Birthday; Good Friday; Patriot's Day; Memorial Day; the seventeenth of June. If one of these holidays falls on Thursday or Sunday, the schools are closed on the day following. In addition to these, for the high schools, Commencement Day at Harvard University.

TEXT-BOOKS.

The following lists comprise all text-books on the lists January 1, 1916:

High Schools.

(These text-books are to be used in either High School as the courses of study may require.)

English Literature.

Brooke.....Primer of English Literature
Hanson.....Two Years' Course in English Composition
Woolley.....Handbook of Composition
————.....American Prose with Biographical Sketches
Arnold.....Sohrab and Rustum
Blackmore.....Lorna Doone
Brooke.....The Story of Cotton
Burke .....Speech on Conciliation with the Colonies
Butcher and Lang.....The Odyssey of Homer Done into English Prose
Byron.....Mazeppa and The Prisoner of Chillon
Carlyle.....Essay on Burns
Chaucer.....Prologue and Knight's Tale
Coleridge.....The Rime of the Ancient Mariner
Cooper.....The Last of the Mohicans
Defoe.....Journal of the Plague Year in London
DeQuincey.....Revolt of the Tartars
Dickens..... Christmas Book
Dickens..... David Copperfield
Dickens.....A Tale of Two Cities
Dryden.....Palamon and Arcite
Eliot .....Silas Marner
Franklin..... Autobiography of
Emerson.....The American Scholar
Goldsmith.....The Deserted Village
Goldsmith..... The Traveler.
Goldsmith..... ..The Vicar of Wakefield
Gray..... Select Poems
Hawthorne.....The House of Seven Gables
Hawthorne.....Twice Told Tales
Irving..... The Alhambra
Irving .....The Life of Goldsmith
Irving.....The Sketch Book
Irving.....The Tales of a Traveller
Jewett.....The White Heron and Other Stories
Lamb.....The Essays of Elia
Macaulay.....Essay on the Earl of Chatham
Macaulay.....Essays on Milton and Addison
Macaulay .....The Life of Samuel Johnson
————.....Masterpieces of British Literature
Milton.....Lyrics and Paradise Lost
Moore.....Life of Abraham Lincoln
Palgrave.....The Golden Treasury, Books II, III, IV
Pope.....Translation of the Iliad
Scott..... The Abbot
Scott ..... Ivanhoe
Scott .....The Lady of the Lake

Scott ..... Marmion
Scott ..... Quentin Durward
Scott ..... The Tailsman
Scudder ..... Historical Biography of George Washington
Shakespeare ..... As You Like It
Shakespeare ..... Julius Caesar
Shakespeare ..... Macbeth
Shakespeare ..... A Midsummer-Night's Dream
Shakespeare ..... The Merchant of Venice
Shakespeare ..... Richard III
Shakespeare ..... Twelfth Night
Sheridan ..... The Rivals
———— ..... Sir Roger de Coverley Papers
Southey ..... The Life of Nelson
Spenser ..... The Faerie Queen, Book I
Stevenson ..... Travels with a Donkey
Stevenson ..... Treasure Island
Tennyson ..... Lancelot and Elaine and Other Idylls of the King
Thackeray ..... Henry Esmond
Van Dyke ..... The Van Dyke Book
Warner ..... Hunting the Deer
Webster ..... The First Bunker Hill Oration

French.

Bouvet ..... Exercises in French Syntax and Composition
Chardenal ..... Advanced French Exercises
Chardenal ..... Complete French Course
Gasc ..... French Dictionary
Rogers ..... French Sight Reading
Super ..... Preparatory French Reader
Assollant ..... Récits de la Vieille France
Berthet ..... Le Pacte de Famine
Bowen ..... Introduction to Modern French Lyrics
Bruno ..... Le Tour de la France
Corneille ..... Le Cid
Daudet ..... Le Belle-Nivernaise
Daudet ..... Le Siége de Berlin
Dumas ..... La Tulipe Noire.
Enault ..... Le Chien du Capitaine
Erckmann-Chatrian ..... Le Conscrit
Erckmann-Chatrian ..... Histoire d'un Paysan
Guerber ..... Contes et Légendes
Halévy ..... L'Abbé Constantin
Hugo ..... La Chute
Julliot ..... Mlle. Solange
Labiche and Martin ..... Le Voyage de M. Perrichon
La Fontaine ..... Fables
Lamartine ..... Scènes de la Révolution Française
Legouvé et Labiche ..... La Cigale chez les Fourmis
Mérimée ..... Colomba
Michelet ..... Récits d'Histoire de France, P. II
Molière ..... L'Avare
Racine ..... Athalie
Sandeau ..... Mlle. de la Seiglière
Talbot ..... Le Français et sa Patrie
Ventura ..... Peppino

German.

Bacon.....Elements of German Grammar
Brandt.....German Reader
Collar.....First Year German
Dippold.....Scientific German Reader
Fossler.....Material for Practical German Conversation
Harris.....German Composition
Joynes-Meissner.....German Grammar
Köhler.....German Dictionary
Walter and Krause.....Beginners' German
Arnold.....Fritz auf Ferien
Bacon.....Im Vaterland
Baumbach.....Der Schwiegersohn
Bernhardt.....Auf der Sonnenseite
Bernhardt.....Gustav Adolf in Deutschland
Chamisso.....Peter Schlemihl
Deering.....Easy German Selections for Sight Translation
Freytag.....Aus dem Staat Friedrichs des Grossen
Freytag.....Die Journalisten
Goethe.....Hermann und Dorothea
Guerber.....Märchen und Erzählungen
Heine.....Die Harzreise
Hillern.....Höher als die Kirche
Lessing.....Minna von Barnhelm
Meyer-Forster.....Karl Heinrich
Mosher.....Wilkommen in Deutschland
Riehl.....Das Spielmannskind-Der stummer Ratsherr
Schiller.....Die Jungfrau von Orleans
Schiller.....Wilhelm Tell
Seidel.....Leberecht Hühnchen
Storm.....Immensee
Strobe.....Deutsche Anekdoten

Greek.

Jones.....Greek Composition
Goodwin.....Greek Grammar
Liddell and Scott.....Greek Lexicon
White.....First Greek Book
Benner.....Selections from Homer's Iliad
Keep.....Cyropædia
Goodwin.....Greek Reader
Goodwin and Harper, text ed.....The Anabasis

Latin.

Allen and Greenough.....Latin Grammar
Bakër and Inglis.....Latin Prose Composition
Collar and Daniell.....First Latin Book
Allen and Greenough.....Cæsar
Allen and Greenough.....Cicero
Allen and Greenough.....Virgil's Aeneid, Books I-VI
Greenough, text ed.....Virgil's Aeneid, Books VII-XII and Georgics
Harper, text ed.....Caesar
Harper, text ed.....Cicero
Harper, text ed.....Virgil's Aeneid, Eclogues and Georgics

Spanish.

Hall.....All Spanish Method
Hills and Ford.....Spanish Grammar
Asensi.....Victoria y otros Cuentos

Alarcon.....El Capitan Veneno
Carter and Bloom, Compiled by.....Cuentos Castellanos
Galdos ..... Marianela
Harrison.....Elementary Spanish Reader
Lesage.....Gil Blas
Schilling.....Don Basilio
Valdés ..... José

History and Civics.

Botsford.....Ancient History for Beginners
Botsford.....History of Greece
Botsford.....History of Rome
Channing.....Students' History of the United States
Fiske.....Civil Government
Ginn.....Classical Atlas
Hart.....Essentials in American History
James and Sanford.....Government in State and Nation
Johnston and Spencer.....Ireland's Story
Montgomery.....Leading Facts of English History
Myers.....The Modern Age

Mathematics.

Atwood.....Exercises in Algebra
Bradbury.....Academic Algebra
Hawkes, Luby and Touton.....First Course in Algebra
Holton.....Shop Mathematics
Huntington.....Four Place Tables of Logarithms
Moore and Miner.....Practical Business Arithmetic
Pierce.....Tables of Logarithms
Schoch.....Introduction to Geometry
Wentworth .....College Algebra
Wentworth.....Plane Geometry
Wentworth.....Solid Geometry
Wentworth ..... Trigonometry
Wentworth and Smith.....Solid Geometry
Wentworth and Smith.....Plane Geometry
Williams and Rogers.....Introductory Modern Illustrative Bookkeeping
Williams and Rogers.....Advanced Course in Bookkeeping

Miscellaneous.

Adams.....Commercial Geography
Altmaier.....Commercial Correspondence and Postal Information
Bullock.....Introduction to the Study of Economics
Davison.....Human Body and Health
Dawes.....How We Are Governed
Gregg.....Shorthand Manual
Gregg.....Speed Practice
———.....Harvard Examination Papers
Huffcut.....Elements of Business Law
Smith.....Classical Dictionary

Music.

Mendelssohn.....Four Part Songs
Shepard.....Harmony Simplified
Tuft ..... Polyhymnia
Whittlesey and Jamieson.....Harmony in Praise

Science.

Appleton.....School Physics
Avery.....School Physics
Butler.....Household Physics
Brownlee and Others.....Chemistry of Common Things
Bradbury.....Elementary Chemistry
Bergen and Caldwell.....Introduction to Botany
Black and Davis.....Practical Physics
Hall and Bergen.....Text-Book of Physics
Hessler.....First Year of Science
Jackson..... Elementary Electricity and Magnetism
Newell ..... Chemistry
Pierce.....Problems in Elementary Physics
Young.....Lessons in Astronomy

TEXT-BOOKS IN THE ELEMENTARY SCHOOLS.

Arithmetic.

Bradbury..... Sight Arithmetic
Cogswell..... Number Lessons
Beaver and Walton.....Mental Arithmetic
Southworth.....Problems in Arithmetic
Walton and Holmes.....Series
Wentworth..... Arithmetical Problems

Geography.

Frye.....Grammar School Geography
Frye.....Elements of Geography
Frye.....Home and School Atlas
Redway and Hinman.....Natural Elementary Geography
Redway and Hinman.....Natural Advanced Geography
Carpenter.....Geographical Readers
Little People Everywhere Series.....Geographical Readers
Winslow.....Geography Readers

History.

Eggleston.....First Book in American History
Fiske.....History of the United States
Higginson.....Young Folks' History
McMaster.....Brief History of the United States
Montgomery.....Leading Facts of American History

Language.

Dunton and Kelley.....Inductive Course in English
Metcalf and Rafters.....Language Series, Books I and II
Southworth.....English Composition and Grammar
Southworth.....New Lessons in Language
Webster.....Series of Dictionaries

Music.

Educational Music Course.....First Five Books
Newton.....Introductory Sight-Seeing Melodies

READING.

General Reading For All Grades.

Around the World Series.
Art Literature Series, Books I to IV.
Baldwin and Bender's Readers.
Carroll and Brooks Readers.
Character Building Readers.
Children's Classics in Dramatic Form.
Colonial Readers.
Elson Readers.
Golden Treasury Readers.
Horace Mann Readers.
Howe Readers.
Jones Readers.
Story Hour Readers.
Williams' Choice Literature.
Riverside Readers.

Kindergarten.

Fingerposts to Children's Reading.....Field
For the Story Teller.....Bailey
Folk Dance Book, No. ?.....Hofer
Mother Goose Melodies, No. 2.....Crowningshield
Music Book, Nos. 1 and 2.....Gaynor
Picture Work.....Hervey
Once Upon a Time Tales.....Stewart
Some Great Stories and How to Tell Them.....Wyche
Story Telling in School and Home.....Partridge
Story Telling: What to Tell and How to Tell It.....Lyman
Stories and Story Telling.....St. John
The City That Never Was Reached.....Stocking
Why the Chimes Rang and Other Stories.....Alden

First Grade.

A Mother Goose Reader.....Mickens
Aldine Primer.....Spaulding and Bryce
Aldine First Reader.....Spaulding and Bryce
Busy Brownies at Work.....Davidson and Bryce
Cherry Tree Children.....Blaisdell
Child Life Primer.....Blaisdell
Child Life First Reader.....Blaisdell
Child's Oliver Twist.....Dickens
Free and Treadwell Primer.....———
In Fableland.....Seri
Progressive Road to Reading, Book One.....Burchill, Ettinger and Shimer
Reynard the Fox.....Smythe
That's Why Stories.....Spaulding and Bryce
Wheeler Primer.....Calmerton and Wheeler
Wide Awake Primer.....Murray
Wide Awake First Reader.....Murray
Ideal Phonic Primer.....———
Ideal Sound Exemplifier.....———

Second Grade.

Aldine Second Reader.....Spaulding and Bryce
Beacon Second Reader.....Fassett
Child Life Second Reader.....Blaisdell

Edson-Laing Reader, Book I.....———
Edson-Laing Reader, Book II.....———
Fairy Stories and Fables.....Baldwin
Fairy Tales.....Grimm
Free and Treadwell's First Reader.....———
Free and Treadwell's Second Reader.....———
Fishing and Hunting.....Dutton
Folk Lore from Foreign Lands.....———
Hiawatha Primer.....Holbrook
Lippincott's Second Reader.....Lewis
Mother Goose Village.....Bigham
Progressive Road to Reading, Book Two.....Burchill, Ettinger and Shimer
Stickney's Second Reader.....———
Stories of Our Holidays.....Horsford
Wheeler's First Reader.....Calmerton and Wheeler
Wide Awake Second Reader.....Murray

Third Grade.

Aldine Third Reader.....Spaulding and Bryce
Fifty Famous Stories Retold.....Baldwin
Big People and Little People, etc.....Shaw
Child Life Third Reader.....Blaisdell
Coe's Third Reader.....———
Edson-Laing Reader, Book II.....———
German Household Tales.....Grimm
Merry Animal Tales.....Bigham
Nature Myths.....Holbrook
Old Greek Stories.....Baldwin
Progressive Road to Reading, Book II.....Burchill, Ettinger and Shimer
Stories of Great Americans for Little Americans.....Eggleston
Stickney's Third Reader.....———
Lippincott's Third Reader.....Lewis
Wheeler's Second Reader.....Calmerton and Wheeler
Wide Awake Third Reader.....Murray

Fourth Grade.

A Boy on a Farm.....Abbott
Adventures of a Brownie.....Mulock
Aldine Fourth Reader.....Spaulding and Bryce
American Hero Stories.....Tappan
American History Story Book.....Blaisdell and Ball
An American Book of Golden Deeds.....Baldwin
Child Life Fourth Reader.....Blaisdell
Child's Garden of Verses.....Stevenson
Founders of Our Country.....Coe
Coe's Fourth Reader.....———
Dictation Day by Day Fourth Reader.....Van Wagenen
Discoverers and Explorers.....Shaw
Dramatic Reader for Lower Grades.....Holbrook
Fables and Folk Stories.....Scudder
Fairy Stories Every Child Should Know.....Mabie
Friends and Helpers.....Eddy
Hans Anderson's Stories.....Anderson
Heath Reader, Book Four.....———
Home Life in All Lands, Book III.....Morris
Little Lord Fauntleroy.....Burnett
Mother West Wind's Children.....Burgess

Peter and Polly in Summer.....Lucia
Pinocchio ..... Collodi
Seven Little Sisters.....Andrews
Stories of American Life and Adventures.....Eggleston
The Dutch Twins.....Perkins
The Golden Fleece.....Baldwin
Thirty More Famous Stories Retold.....Baldwin
Ways of Wood Folks.....Long
Wide Awake Fourth Reader.....Murray

Fifth Grade.

A Wonder Book.....Hawthorne
Aldine Fifth Reader.....Spaulding and Bryce
Children of the Cold.....Schwatka
Child Life Fifth Reader.....Blaisdell
Dictation Day by Day Fifth Reader.....Van Wagenen
Dramatic Reader for Lower Grades.....Holbrook
First Book of American History.....Perry and Price
First Course in American History.....Hodgdon
Heath's Reader, Book Five.....———
Herakles ..... Burt
Historical Plays of Colonial Days.....Tucker and Ryan
Home Life in All Lands, Book I.....Morris
In the Days of Giants.....Brown
Jungle Book.....Kipling
Little Lord Fauntleroy.....Burnett
Makers of Our Country.....Coe
Moni, the Goat Boy.....Spyri
Northland Heroes.....Holbrook
Our Birds and Their Nestlings.....Walker
Robin Hood and His Merry Men.....Warren
Smoky Days, Wigwam Evenings.....Eastman
Stories of Long Ago.....Kupfer
The Book of Legends.....Scudder
The Children's Hour.....Longfellow
The Golden Path.....Sneath, Hodge and Stevens
The Princess and the Goblin.....Macdonald
The Indian Boy of Santa Clara.....Snedden, Mrs.
Trail to the Woods.....Hawkes
Water Babies.....Kingsley
White Patch.....Patri

Sixth Grade.

A Dog of Flanders and the Nürnberg Stove.....Ouida
Adventures of Ulysses.....Lamb
Alice in Wonderland.....Carroll
Baldwin's Fifth Reader.....———
Ben the Black Bear.....Van Dyke
Black Beauty.....Sewall
Boy Life.....Howells
Braumbaugh's Fifth Reader.....———
Colonial Children.....Hart
Dictation Day by Day Sixth Reader.....Van Wagenen
Explorers and Settlers.....Gordy
Fifty Famous People.....Baldwin
Gulliver's Travels.....Swift

Heidi ..... Spyri
King Arthur and His Knights ..... Radford
Little Men ..... Alcott
Little Women ..... Alcott
Land of Song, Book II ..... Shute
Lives and Stories Worth Remembering ..... Kupfer
Lobo, Rags and Vixen ..... Seton
Odysseus, the Hero of Ithaca ..... Burt
Old Norse Stories ..... Bradish
Song of Hiawatha ..... Longfellow
Stories from Life ..... Marden
Tanglewood Tales ..... Hawthorne
Ten Boys from Long Ago ..... Andrews
The Birds' Christmas Carol ..... Wiggin
The First Christmas Tree ..... Van Dyke
The Golden Door ..... Sneath, Hodge and Stevens
The King of the Golden River ..... Ruskin
The Little Lame Prince ..... Craik
The Story of Europe ..... Hardin
The Story of the English ..... Guerber
The Story of the Greeks ..... Guerber
The Young Citizen's Reader ..... Reinsch

Seventh Grade.

America's Story for America's Children ..... Pratt
Being a Boy ..... Warner
Baldwin's Sixth Reader ..... ———
Camp and Fireside Stories of the Revolution ..... Hart
Colonists of the Revolution ..... Century Readings in United States History
Famous Men of Modern Times ..... Haaren and Poland
Grandfather's Chair ..... Hawthorne
Hans Brinker ..... Dodge
How Our Grandfathers Lived ..... Hart
Hunting the Deer ..... Warner
Jackanapes and Brownies ..... Ewing
Picciola ..... Saintine
Stories of Invention ..... ———
The Boys' Parkman ..... Hasbrouck
The Courtship of Miles Standish ..... Longfellow
The Eugene Field Book ..... ———
The Golden Key—Golden Rule Series ..... Sneath, Hodges and Stevens
The Story of the Romans ..... Guerber
The Perfect Tribute ..... Andrews
Treasure Island ..... Stevenson
Two Years Before the Mast ..... Dana
Under the Lilacs ..... Alcott

Eighth Grade.

Abraham Lincoln ..... Baldwin
A Christmas Carol, Etc ..... Dickens
Autobiography ..... Franklin
Baldwin's Seventh Reader ..... ———
Dramatic Reader ..... Dickens
Evangeline ..... Longfellow
Howell's Story Book ..... ———
How the World Is Housed ..... Carpenter

How the World Is Fed.....Carpenter
Industrial Studies.....Allen
Julius Caesar.....Shakespeare
Kidnapped .....Stevenson
Kipling Reader for Upper Grades.....———
Masterpieces of American Literature.....———
Romance of the Civil War.....Hart
Snow Bound.....Whittier
Stories of Great Artists.....Keysor
Tales of the White Hills.....Hawthorne
Tales from Shakespeare.....Lamb
Tales of a Wayside Inn.....Longfellow
The Civil War.....Century Readings from United States History
The Deerslayer .....Cooper
The Flag Raising.....Wiggin
The Girl Who Earns Her Own Living.....Richardson
The Government—What It Is—What It Does.....Clark
The Heart of a Boy.....Howells
The Last of the Mohicans.....Cooper
The Man Without a Country.....Hale
The Merchant of Venice.....Shakespeare
The Peasant and the Prince.....Martineau
The Sketch Book.....Irving
The Talisman.....Scott
The Westward Movement.....Century Readings in United States History
William Tell .....McMurray

REPORT OF THE SUPERINTENDENT OF STREETS.

To the Honorable, the City Council:

Gentlemen: In accordance with the provisions of Chapter 25 of the Revised Ordinances of the City, the annual report of the Superintendent of Streets for the fiscal year ending March 31, 1916, is herewith submitted.

The regular appropriations of the department are first treated and are followed by the special appropriations, funds of which were provided by issues of bonds and special revenues.

BRIDGES

Appropriation	$14,000 00	
From Reserve Fund	600 00	
From Reserve Fund	182 84	
		$14,782 84
Drawtenders' salaries	$12,305 21	
Repairs and expenses	2,477 63	
		14,782 84

The usual repairs to plank surfaces were made this year and the balance of the expense was for light, power and miscellaneous supplies. The present condition of the several bridges under the control of this department is set forth in the following report of the City Engineer and will call for increased expenditures this coming year.

REPORT ON CONDITION OF BRIDGES

January 22nd and 24th, 1916.

FIRST STREET BRIDGE

This bridge is in good order and will need only ordinary repairs.

COMMERCIAL AVENUE BRIDGE

The planking on this bridge is entirely worn out, the timbers showing through in many places. Two of the guard irons on the fenders of the northerly pier are torn from their places and should be refastened at once. The draw when lowered to its seat does not bring the sidewalk on the bridge to the same level as the walk on the abutments, so leaving a break likely to occasion accidents to pedestrians.

THIRD STREET BRIDGE

The Bay State Fuel Co. have driven piles on the easterly side of Third Street to support one of their buildings. When this was done, it caused a movement of the southerly pier of the bridge, shifting it into the canal. This causes the channels at the leaf heads to strike and bind, making it difficult to open or shut the draw. The draw tender thinks there is danger of breaking the chains when trying to raise the draw.

SIXTH STREET BRIDGE

There is trouble in raising and lowering the draw, because the channels on the front end of the leaves strike before they are in place. This interference is growing worse. There is also trouble at the heel of the south leaf on account of the planking striking the bridge timbers before the leaf is fully raised.

Other than as above mentioned, these bridges will need only ordinary repairs this year.

WALDEN STREET BRIDGE

This bridge needs to have its fences repainted and have the paint protected until it hardens. There are two or three places under the bridge which looks badly but are only points where the concrete was not properly placed when the bridge was built. A mason, or any laborer, with a batch of cement mortar and a trowel could greatly improve the appearance of the work which now looks as though it was breaking away from the ironwork.

At the northeast corner of the bridge, there should be erected a guard to prevent someone falling from the sidewalk onto the railroad location six or seven feet below. It is a dangerous place and if an accident should occur there, the City would doubtless be put to considerable expense.

HURON AVENUE AND F. R. R. BRIDGE

The block paving on this bridge is very rough, some of the blocks sticking up a half inch or more. It would seem as though a rammer might help to smooth the surface. The paint on the fences is beginning to peel as are some of the plates and I's below the deck. The fascia needs scraping and painting as do some of the

sidewalk I's. At the northwest corner of the bridge, there should be a load or two of broken stone placed to prevent further washing away of the earth in front of the abutment.

FOUNTAIN TERRACE BRIDGE

The top rails of the fences here need scraping and painting and the iron work generally under the deck should be scraped and painted this season. It has never been repainted since the bridge was built. A little stone filling in front of the piers would greatly improve the looks of the work to those entering Fresh Pond Park.

The old iron fence which once guarded the top of the bank between the high and low level roadways of Fountain Terrace is now largely rusted away, many of the rods between the posts having disappeared, leaving very dangerous places. The fence should be replaced or the high level roadways be fenced off and travel upon them stopped.

WELLINGTON BROOK BRIDGE

The bridge is in good order except a weakness in the fence which a carpenter could remedy in a few minutes.

ALEWIFE BROOK BRIDGE

This bridge is in good condition.

L. M. HASTINGS,
City Engineer.

Jan. 25, 1916.

STREET CLEANING

Appropriation		$57,000 00
From Reserve Fund		2,000 00
From B. & C. Bridges Expenses		53 36
		$59,053 36
Payroll, general	$24,772 86	
Payroll, section men	22,869 18	
Teaming	4,638 75	
Stable and horse expenses	4,716 49	
Hardware, tools, etc	1,703 94	
Machine renewals	289 35	
Sundries	62 25	
		59,052 82

There was but little variation from the usual program in this division. The spring and fall general cleanings were performed and the paved streets were cleaned as often as the financial condition would warrant. The section force was withdrawn from their regular routes during the summer and formed into a gang which cleaned the paved streets regularly. The smooth paved streets, especially the wood block, were washed at frequent intervals with the "squegee" machine.

The cost of this work is affected by the fact that longer hauls are necessary with the material collected. Public demand increases for cleaner streets, especially main thoroughfares, and it will be the practice this coming season to keep these streets washed and swept and I shall recommend the addition of a flushing machine for this purpose.

I shall also recommend the purchase of a small truck to pick up section men sweepings as these piles are frequently left out owing to inability to collect them all with horse-drawn wagons.

Each year the area of smooth-paved streets is increasing and accordingly the expense of keeping such areas clean every day must increase and I shall ask that the appropriation for this work be as liberal as possible this year.

SNOW REMOVAL

Appropriation		$5,000 00
Additional from Reserve and Emergency Funds		7,900 00
		$12,900 00
Payroll, general	$6,513 35	
Payroll, schoolhouses	1,282 57	
Payroll, section men	4,186 26	
Teaming	150 75	
Stable expense	568 16	
Hardware, tools, etc.	136 99	
Salt	16 17	
		12,854 25
		$45 75

The past winter was one of the most severe that the department ever experienced. Only two days after the fiscal year started, on April 3, 1915, there was a heavy fall of snow which cost over $400 to remove. Up to the first of February there was but little of the balance used but from that date on there were continual storms and freezing weather. This necessitated several transfers from the Reserve and Emergency Funds. The thaw commenced late in March

and considerable of the gutter work was carried into the 1916 fiscal year.

I should recommend that the amount expended by this department for removing snow from the walks around and in school property be reimbursed as the School Department have no reason to expect the Street Department to pay for this work. Other public buildings and parks are taken care of by the respective departments and at their expense.

COLLECTION OF ASHES

Appropriation		$68,000 00
From Reserve and Emergency Funds		10,800 00
		$78,800 00
Payroll	$62,050 10	
Salary of foreman	1,300 00	
Teaming	174 75	
Stable and horse expense	12,974 85	
Dumping privilege	534 50	
Auto supplies and repairs	607 91	
Ashcart covers	119 36	
Compensation expenses	303 00	
Wagon repairs	440 91	
Miscellaneous hardware, etc.	294 46	
		78,799 84
		$ 16

YEAR	Number of Cubic Yards Collected	Amount Expended	Unit of Cost Per Cubic Yard
1905	100,084	$32,499 23	$.324
1906	106,106	33,686 46	.316
1907	113,604	37,458 48	.329
1908	122,901	40,152 36	.319
1909	132,146	44,599 62	.337
1910	141,301	47,099 28	.333
1911	158,973	52,999 64	.333
1912	154,021	57,290 08	.372
1913	161,417	59,999 80	.371
1914	173,180	63,560 39	.367
1915	190,554	78,799 84	.413

The foregoing table shows the amount of material collected during each of the fiscal years and reflects the steadily rising costs of this work. That the unusually large quantity of ashes collected during the past winter was disposed of successfully at low cost is due to the efforts of the department in securing dumping places heretofore considered unavailable. However, these places are in some places

filled and in others nearly so. I am sure that such favorable conditions could not be secured again next winter.

We have completed the fill on Vassar Street and have extended Fowler Street through to Vassar by permission of the Ames Estate. There are still one or two places that might be filled in this area but they are not important or large.

This problem has now reached the stage where it demands serious and immediate consideration. It has for the past five years been gradually developing itself into one of transportation. Several plans have been considered for this work and some one must be put into operation this coming fall. The plan of erecting a relay station and hauling from there to the areas in the northern part of the city has been carefully gone over. The motor truck idea has been investigated as also the scow and electric railway plans. Unless some one of these plans can be shown to be the more economical, hauls will still be made with the old-fashioned horse drawn wagons. It has been fully demonstrated that we need more of the six-yard Shadbolt wagons to replace the single teams which only carry one and one-half yards.

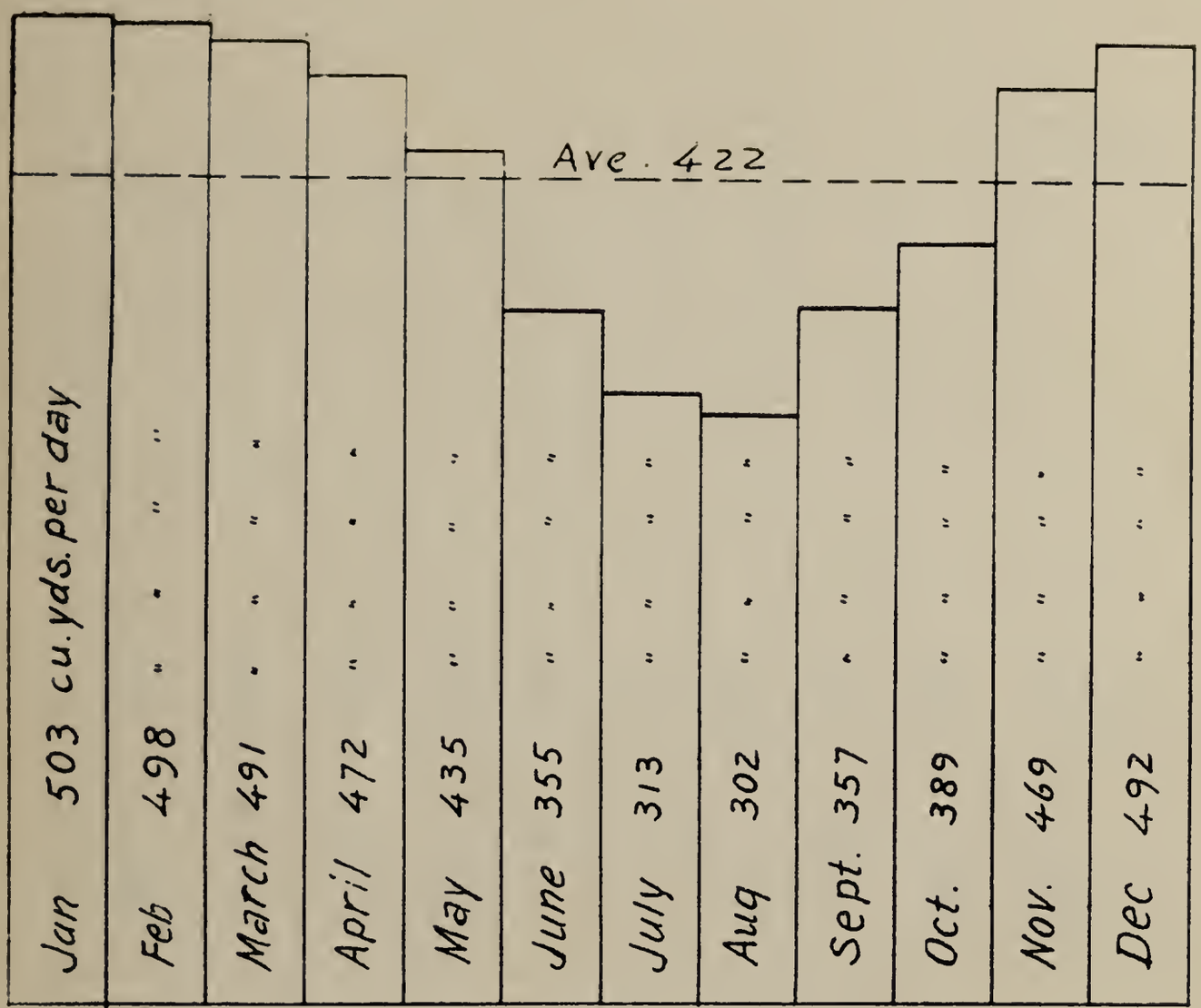
The question of rerouting the city has been investigated during the past winter and the quantity of material gathered in each day's collection ascertained. The table shows the figures for each day for the calendar year of 1915.

ASH COLLECTION DATA—CAMBRIDGE, MASS.

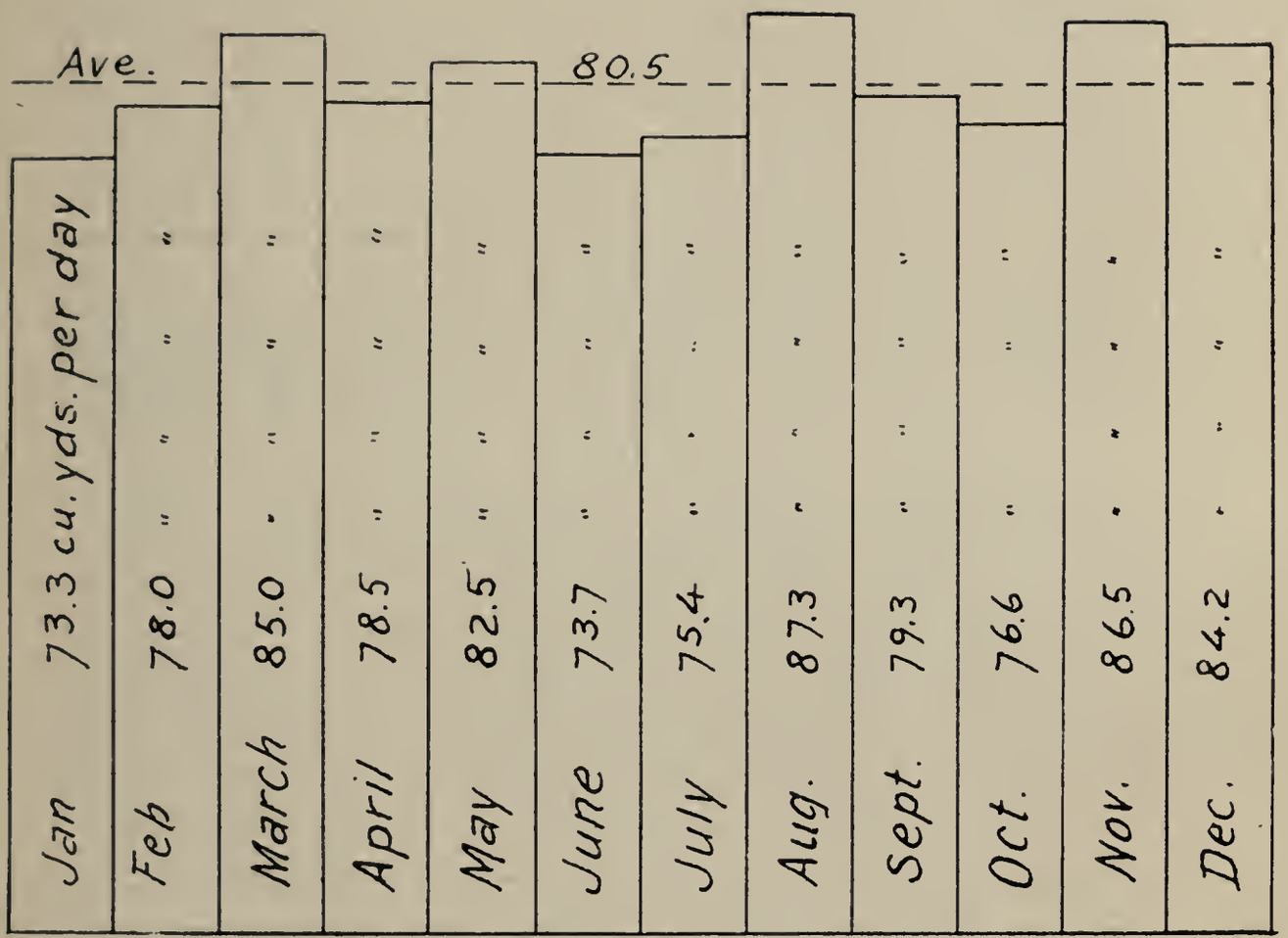
Jan. 1, 1915 to Dec. 31, 1915—Cubic Yards.

	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.	Total	Av. per Day	P. C. of Total
									Mon.
January	2,804	3,471	2,097	2,894	2,733*	1,610*	15,609	503	18.2
									Tues.
February	2,351	3,846	2,178	2,257	2,666	1,254	13,952	498	22.5
									Wed.
March	3,374*	3,614*	2,123	2,366	2,162	1,254	15,236	491	16.6
									Thur.
April	2,169	3,275	2,100	2,748*	2,481*	1,392	14,165	472	16.3
									Fri.
May	2,889*	3,011	2,596	1,938	1,794	1,198	13,426	435	16.5
									Sat.
June	1,823	1,845	2,169	1,926	1,964	922	10,649	355	9.9
									Total
July	1,485	1,878	1,641	1,854*	1,812*	1,020	9,690	313	100.0
August	1,889	2,067*	1,542	1,518	1,536	874	9,426	302	
September	1,193	2,097	2,556*	2,316*	1,521	1,041	10,723	357	
October	2,193	2,630	1,779	1,977	2,216*	1,272*	12,068	389	
November	3,000*	3,730*	2,226	1,395	2,100	1,644	14,095	469	
December	2,867	3,174	2,793*	1,909	3,063*	1,411	15,217	492	
Totals	28,037	34,638	25,800	25,098	25,448	15,235	154,256		

*5 times per month.



Ash Collections
Cambridge, Mass.
1915



Waste Paper Collections
Cambridge Mass.
1915.

HOUSE OFFAL EXPENSES

Appropriation		$8,000 00
Transferred from Reserve Fund		7,124 19
		$15,124 19
Harnesses, repairs, etc.	$377 66	
Horses	684 55	
Hay, grain and straw	7,271 97	
Horse shoeing	1,274 32	
Repairs to stable	1,890 60	
Stationery and printing	92 90	
Telephone	27 83	
New equipment	2,115 22	
Wagon repairs	971 39	
Lighting	46 74	
Compensation expenses	18 00	
Fuel	37 62	
Disinfectant	49 69	
Stable supplies	110 69	
Hardware, tools	146 61	
Misccellaneous expenses	8 40	
		15,124 19

The division equipment was added to by purchasing six steel carts to replace the older wooden carts which are rapidly getting out of repair. Consequently the repair account will be much smaller the coming year. The condition of the stable and platform was such that a thorough rebuilding was necessary. The appropriation of $3,000 made for this purpose did not meet the requirement and the balance was taken out of this account. The stable is now in first-class condition and a new concrete manure bin has been constructed. The foreman's office has been built into the stable.

All offal collected and delivered to the platform has been sold and the receipts for the year amounted to $17,382.81. The accounts are in excellent condition and little or no money is owed us.

MAINTENANCE GENERAL

Appropriation		$89,300 00
Received for horse board		648 00
From Reserve Fund		6,943 99
		$96,891 99
Payroll, fixed charges	$30,347 78	
Payroll, street work	26,584 65	
Teaming	276 75	
Stable expense	7,381 22	
Hardware, tools, etc.	654 63	
Lumber	509 55	
Steam roller, repairs, etc.	4,928 04	
Stone crushers repairs	75 83	

Gravel	1,031 98	
Fuel	1,790 93	
Signs	189 73	
Lighting	821 16	
Telephones and office expenses	952 48	
Auto supplies and repairs	2,622 54	
Painters' supplies	377 31	
Road binders	8,030 10	
Repairs to Bitulithic	486 65	
Miscellaneous items	743 34	
		96.891 99

It will be seen from the above items that the greater part of this appropriation is used for the maintenance of the Street Department plant and the construction and patching of waterbound or tar-bound surfaces. But little of this appropriation has been available for necessary repairs to the shops, stables and other buildings which are yearly getting worse. A new "Maintenance Roller" has been added to the department equipment and has been all that is claimed for it. One of the older Pitts rollers was taken in exchange for it. The department should have a small tandem roller for patch work. A great deal of the money of this appropriation is used up in the spring of the year in repairing and patching tar-bound streets, surfacing gravel sidewalks, patching brick sidewalks when the repair money is gone, and the general upkeep of streets so that but little is left to do new work. I shall recommend the coming year a considerable sum for building with bituminous macadam many of the principal streets.

There is now urgent need of rebuilding some of our shops as they are very old and require continuous repairing. Especially at the Hampshire Street Yard, there is need of constructing new shops with the idea of laying out the space there to better advantage. Room for more horses must be provided at once and the office should be moved out of the stable and this space made into stalls. If the department adds more motor equipment, we shall have to build a fireproof garage of good size in order to accommodate the additional cars.

BITUMINOUS RESURFACING

STREET	Labor	Teaming	Steam Roller	Crushed Stone	Binder	Total	Square Yards
Cedar, entire	$273 50	$150 50	$112 00	$636 73	$1,316 25	$2,488 98	3,874 00
Chestnut, between Brookline and Pleasant	615 31	88 50	119 00	699 24	1,260 00	2,782 05	3,888 60
Dover, between Mass. Ave., and Somerville Line	63 75	77 00	35 00	143 95	260 00	579 70	887 00
Forest	77 50	66 00	84 00	362 80	426 80	1,017 10	935 00
Garden, between Walker and Linnaean	480 00	319 50	147 00	1,330 40	1,573 00	3,849 90	3,666 00
Hampshire, between Inman Sq., and Somerville Line	98 75	17 25	35 00	147 75	135 44	434 19	1,000 00
Healey, entire	82 50	68 00	56 00	346 50	321 52	874 52	1,150 00
Huron Ave., between Wyeth Sq., and Concord Ave.	111 25	129 50	87 50	728 50	.....	1,056 75	2,177 00
Richdale Ave., between Walden and Upland Road	175 00	129 25	147 00	861 10	596 00	1,908 35	3,180 00
Ware, entire	60 00	89 50	21 00	129 25	286 00	585 75	1,635 00
Windsor, between Hampshire and Harvard	308 13	25 75	63 87	890 38	1,288 00	2,576 13	3,335 00
Windsor, between Cambridge and Hampshire	769 44	38 00	119 00	1,634 33	1,192 88	3,753 65	6,324 00
Totals	$3,115 13	$1,198 75	$1,026 37	$7,910 93	$8,655 89	$21,907 07	32,051 60

Patching Work—District One, $8,109.03. District Two, $4,106.20. Total, $12,115.23.

STREET WATERING

Appropriation		$40,000 00
Transferred to other accounts		767 14
		$39,232 86
Payroll, general	$2,385 71	
Payroll, clerical work	96 75	
Salary of foreman	1,317 75	
Sprinkling payroll	11,830 15	
Teaming	481 50	
Grain	236 57	
Road oil	22,236 61	
Auto supplies	297 03	
Watering carts and repairs	350 43	
		39,232 50
		$ 36

The past season was the most successful that the department has had in keeping down the dust. The appropriation was large enough to give the entire city two applications and in some cases even more. The total amount and kinds of oils used are as follows:

Vigilant	91,001 gallons
Standard	53,571 "
Currola	66,360 "
Amco	20,250 "
	231,362 "

All these oils have given satisfaction and fewer complaints have been received than any other year. The usual apportionment of the "B" treatment of Tarvia on the Tarvia streets has been charged to this appropriation. Owing to the advance in price of all road oils this same amount should be appropriated the coming year.

PAVING APPROPRIATIONS.

	Crossings	Sidewalk Repairs	Edgestones and Sidewalks
Appropriation	$700 00	$7,300 00	$12,116 81
Payroll	645 53	5,492 94	5,380 46
Teaming	.....	229 50	114 06
Stable expense	.....	.....	436 51
Hardware, tools and equipment	11 88	607 11	359 80
Lighting	22 25	6 37	69 97
Bricks	.....	475 82	1,395 50
Gravel	.....	228 77	237 67
Granolithic repairs	.....	66 31	.....
Edgestone	.....	122 03	2,204 30
Granolithic rebates	.....	.....	1,432 29
	$679 66	$7,228 85	$11,630 50

The Crossings appropriation was expended in the usual way by repairing old crossings and putting in new ones. The Sidewalk Repairs appropriation was expended in renewing and repairing worn out brick sidewalks, straightening edgestones, filling in tree holes and patching granolithic sidewalks out of guaranty. The Edgestones and Sidewalks appropriation was expended in completing orders for brick sidewalks and edgestones and paying rebates for new granolithic sidewalks. There are a great many orders in the files at the present time that should be provided for during the coming year as there is a great deal of building in progress and permanent walks are urgently needed in front of them.

PENSIONS

Street Department

Appropriation		$4,553 80
Additional		248 40
		$4,802 20
Weekly payrolls	$4,201 60	
Monthly roll	600 00	
		4,801 60
		$ 60

There were several changes in the pension roll during the year. One pensioner died and there were several added until the weekly roll at the present time is $146.81 and the monthly roll is $50.00.

PENSIONS

Offal Division

The weekly roll in this division is $45.98 and has not changed during the year.

Appropriation	$2,390 96
Expended	2,390 96

BITUMINOUS MACADAM MASSACHUSETTS HIGHWAY COMMISSION SPECIFICATIONS.

The following streets were built with bituminous surfaces under Massachusetts Highway Commission specifications.

Cedar Street, entire, with Standard "B" Binder.
Chestnut Street, Magazine to Pearl, with "Tarilithic."
Garden Street, Walker to Linnaean, with Standard "B" Binder.
Lowell Street, entire, (unfinished April 1, 1916.)
Windsor Street, Cambridge to Hampshire, with Tarvia "X".
Windsor Street, from Hampshire to Harvard, with "Tarilithic".

	Cedar	Chestnut	Garden	Lowell	Windsor No. 1	Windsor No. 2
Payroll	$433 56	$760 85	$725 76	$250 50	$369 38	$841 17
Stone	1,284 66	699 67	1,433 82	382 48	990 12	761 23
Binder	1,316 25	1,281 00	1,573 00	.....	1,246 00	783 44
Other expenses	107 29	19 62	50 13	16 88	74 72	80 34
	$3,141 76	$2,761 14	$3,782 71	$649 86	$2,680 22	$2,406 18

Special funds were provided by issue of five-year bonds for the construction of these streets. There are some balances left in some of these accounts which can be used for similar work in the spring. There are many streets in the city which should be provided for in the same way and a substantial amount should be appropriated every year for this kind of work. Lowell Street and a small amount of work on Garden Street remain to be finished as the cold weather prevented their completion.

LAWN STREET, WASHBURN AND PUTNAM AVENUES

Appropriation $2,500 00

	Lawn	Washburn Avenue
Payroll	$1,509 14	$142 25
Gravel	164 51	
Edgestones	15 03	53 76
Sewer work	59 22	
Crushed stone		19 27
	$1,747 90	$217 28

This appropriation was made late in the fall in order that Lawn Street might be extended through from Cushing Street to Oxford Avenue. After the paving work of the department had been completed the city teams were turned into the gravel pit close by and the fill at the angle of the street was made. Catchbasins were put

in by the Sewer Department and the fill was completed before the snow fell. It should be completed in the spring by laying a light macadam surface on this gravel. Washburn Avenue had an angle a short distance from the Somerville Line and the amount above was expended in straightening out this angle on both sides of the street. There was also included in this appropriation land damages for Putnam Avenue and Washburn Avenue which were adjusted by the Law Department.

VASSAR STREET

Appropriation		$5,000 00
Payroll	$1,740 44	
Teaming	701 25	
Hardware, tools, etc.	11 90	
Gravel	15 68	
Crushed stone	357 89	
Sewer work	15 06	
		2,842 22
Balance		$2,157 78

This section of Vassar Street, from Wellesley to Fowler Street was accepted late in December but in order that a road might be available for the new manufacturing concern which had built a large warehouse there the street was excavated to grade and a water bound macadam surface put on. The filling was moved in scoops into low areas on the side of the street. The work is practically complete now. No provision was made for providing funds for this work and the money was drawn from the Treasury expecting that the new City Government would pass the necessary order. I would recommend that a loan order for $3,000 be passed at once in order to return this amount to the treasury.

BOYLSTON STREET

Appropriation		$12,500 00
Payroll	$3,970 51	
Teaming	307 50	
Stable expense	132 82	
Hardware, tools, etc.	125 54	
Gravel and stone	844 71	
Cement	836 53	

Bitulithic surface	5,976 50	
Blocks	190 95	
Sundries	114 73	
		12,499 79
		$ 21

This part of Boylston Street, between Eliot Street and the Parkway, was the only section that had not been completed with permanent pavement and was in very bad condition. Accordingly a concrete base was laid and upon this was placed the two-inch bitulithic surface. This improvement is greatly appreciated by the people who have occasion to go to the Stadium and is in conformity with the new Anderson Bridge to which it is an approach.

MASSACHUSETTS AVENUE

Bigelow Street to Quincy Square.

Appropriation		$50,000 00
Transferred from Huron Avenue		1,150 22
		$51,510 22
Payroll	$15,793 94	
Teaming	2,759 25	
Stable expense	51 92	
Cement	2,034 65	
Bricks	110 61	
Fuel and lighting	204 24	
Concrete stone and sand	1,866 79	
Hardware, tools, etc.	390 90	
Wood blocks	27,865 30	
Expansion joint	432 59	
		51,510 22

After a long discussion in the City Government, it was finally decided to continue the wood block pavement between the above-named points and therefore have one continuous wood surface from Lafayette Square to Garden Street. The work was considerably delayed through the railroad company relaying their track.

It was assumed when the blocks were ordered that the railway company would pave their spaces with wood as in the other parts of the avenue but this was not done and accordingly we had about 2,000 square yards of wood block paid for but not used. On this account it was not found possible to pave Putnam and Quincy Squares.

The work was done in the usual method by laying a five-inch concrete base and laying the block upon a dry mortar cushion. Ex-

pansion joints were laid at the curb but no filler was used on this job. The funds were provided out of ten year bonds.

HURON AVENUE

Appropriation		$60,000 00
Transferred to Massachusetts Avenue		1,510 22
		$58,489 78
Payrolls	$17,742 10	
Teaming	1,862 25	
Stable expense	943 09	
Hardware, tools, etc.	152 74	
Cement	2,777 06	
Gravel and concrete stone	3,041 42	
Crushed stone	3,704 70	
Edgestones	241 42	
Bitulithic surface	24,993 90	
Concrete mixer	965 00	
Sundry other expenses	251 83	
		56,675 51
Balance		$1,814 27

The section of Huron Avenue, from Concord Avenue to Aberdeen Avenue, on which many new houses have been built during the last few years was constructed with Bitulithic pavement. The street on the south side is still undeveloped to a large extent and accordingly no concrete base was placed there. A cracked stone base four inches deep was laid and the Bithulithic surface was laid on the top. This will enable the pavement to be cut easily for water, sewer and gas pipes. The north side was constructed with concrete base. A rim row of granite blocks was laid wherever edgestones were needed which may be replaced with edgestone when ordered by the abuttor. Cold weather closed in this job and the balance is left to continue the work on the south side from Fresh Pond Parkway where it was left off to Aberdeen Avenue.

AKRON, HINGHAM AND STILES STREETS

Appropriation		$7,500 00
Payroll	$5,899 41	
Teaming	1,195 50	
Stable expense	103 24	
Gravel and stone	220 35	
Other expense	81 16	
		7,499 66
		$ 34

These three short streets which run parallel to each other and which adjoin the Hingham and Sterling Knitting Companies mills were constructed with second hand granite blocks on concrete base with grouted top. They were completed early in the year and much of the stock used in them had been left over from the previous year. The manufacturing interests in this locality appreciate the improvement which was greatly needed.

CONCORD AVENUE

Appropriation		$38,000 00
Payroll	$2,802 51	
Teaming	570 75	
Contract, Warren Bros. Co.	33,860 92	
		37,234 18
Balance		$765 82

After several year's unsuccessful effort to get the State to take over and construct Concord Avenue from Walden Street to the Belmont Line, an act was finally passed by the Legislature providing for its completion and apportioning the expense.

The sum estimated was $38,000 and the work was to be done under the supervision of the Massachusetts Highway Commission. Preliminary estimates were submitted to this department and were found to be excessive but were altered so as to come within the appropriation. The first estimates called for a Warrenite surface from curb to curb but had to be cut down by placing two four-foot gutters in the area between Walden Street and the R. R. crossing and a twenty-foot strip with gravel shoulders from there to the line. The City commenced the work but found that with the amount of cut insisted on by the State and no opportunity to use the waste as fill that it was not feasible to go farther and accordingly turned the remainder of the contract over to the Warren Brothers Company for completion. The subgrade was prepared and excavated to grade and a five-inch crushed stone base was rolled into it. Upon this was placed the Warrenite surface. A thorough system of drainage was constructed to take care of surface water.

The State has reimbursed the city $36,397.32 under the contract which the city entered into with the State, and under the provision of Chapter 196 of the Acts of 1915 the city will be required to pay three-eights of the total cost early in the next fiscal year.

The improvement was one that was most needed in that section of

the city and has caused widespread favorable comment not only from Cambridge citizens but those living beyond.

I should recommend that the portion of the street lying between the R. R. crossing and the Belmont line be taken over by the State as a State highway and maintained as such.

PERMITS

OPENING PERMITS

Boston & Albany Railroad	2	
Boston Elevated Railway Company	21	
Boston & Maine Railroad	12	
Boston Consolidated Gas Co	5	
Cambridge Electric Light Co	153	
Cambridge Gas Light Company	514	
New England Tel. and Tel. Co	123	
Water Department	43	
Drain layers	238	
Miscellaneous	37	
		1,148

OBSTRUCTION PERMITS

Removing trees	35	
Tar kettle contractors	54	
Steam rollers passing through streets	4	
Moving 25-ton casting	1	
Miscellaneous	625	
		719
Moving buildings		5
Board walks		57

ARTIFICIAL STONE SIDEWALKS

Adams-Pond Co.	2	
Thomas Allen	2	
Hervey F. Armington, Inc	7	
William F. Condon	20	
George M. Crowell Co	4	
Thomas J. Hind, Inc	1	
Simpson Brothers Corporation	2	
Otto A. Theurer	1	
Warren Brothers Co	4	
Frederick O. White	27	
		70
Selling goods on sidewalks		45
Grand Total		2,044

The issuing of permits is an important feature of the office work. The preceding table shows in detail the number and kinds of permits issued during the year.

STREET DEPARTMENT

PERSONAL PROPERTY

104 horses	$30,000 00	
25 watering carts	5,000 00	
70 single and double carts	5,000 00	
120 sets harness	2,000 00	
2 concrete mixers	1,800 00	
4 automobiles	1,300 00	
1 bicycle	25 00	
4 steam rollers	12,000 00	
11 Shadbolt carts	3,000 00	
2 Watson carts	400 00	
150 feet edgestones	90 00	
150,000 granite blocks	3,000 00	
1,000 sidewalk bricks	15 00	
150 ft. granite flagging	75 00	
100 tons field stone	75 00	
200 tons crushed stone	200 00	
Oil storage, Raymond Street	1,000 00	
Stone crushing plant, Raymond Street	5,000 00	
Stone crushing plant, Hampshire Street	2,000 00	
Furnace and boiler, Main Street incinerator	9,000 00	
Miscellaneous machinery	500 00	
Miscellaneous tools, road machines, brooms, scrapers, machine brooms, waste barrels, push carts, etc.	10,000 00	
Miscellaneous buggies, wagons, pungs, plows, etc.	5,000 00	
Miscellaneous grain, hardware, paints, leather and general stock	1,500 00	
		$97,980 00

INVENTORY OF REAL AND PERSONAL PROPERTY

REAL ESTATE

Location	Buildings and Land	Erection of Buildings	Purchase of Land	Feet	Valuation of Land	Valuation of Buildings
Raymond St. ..	City yard and Stable, stable, sheds, scales, etc.	1897	1896	272,670	$27,000	$27,000
	Incinerator Plant	1912	.....	.....	.....	5,500
Hampshire St..	City stable, sheds, stables and scales, including old police station	1885	.....	72,661	30,000	16,000
E. S. Norfolk St	Yard and pound	.....	.....	34,650	10,400	
River St.....	Yard and wharf	.....	.....	41,546	17,000	.....
Acton, Mass....	Land, gravel bank	.....	1896	.....	3,000	.....
Main St.	Land and incinerator plant	1908	.....	93,424	31,900	18,000
Tannery St. ...	Land and stables, sheds, etc.	.....	.....	.....	6,000	4,000
					$125,300	$70,500

Total valuation of real estate $195,800 00

RECOMMENDATIONS

The need of reconstructing that part of Massachusetts Avenue between the Harvard Bridge and the Railroad crossing should be one of the first considerations of the next year. There are three plans that might be adopted for this area. First, the present worn-out vitrified brick could be removed and a new vitrified brick laid in its place. Secondly, the present surface could be covered with a permanent bituminous top such as bitulithic or possibly asphalt. This would necessitate changing the grades slightly and would last for some years. A similar treatment was laid over the old Hassam surface on Massachusetts Avenue in North Cambridge in 1914 with success. Third, if a noiseless pavement is desired, as some of the residential interests are advocating, a wood block could be laid on the old base. Such a job has been done on Prospect Street. The only difficulty is that there are five and one-half inches between the finished grade and the present base to fill with a three and one-half inch wood block. The placing of a one-inch layer of concrete on top of the old concrete so that a one-inch bed can be made for the block is not an easy matter and a solution of this is being looked into. The other section of the Avenue, from the Railroad crossing to Lafayette Square should last for a year or two longer with proper maintenance.

I should recommend the completion with wood block the unpaved areas at Putnam Square and Quincy Square and make a complete job of the avenue from Central to Harvard Squares.

I also recommend the replacing with wood blocks of the old granite paving on Cambridge Street, from the Railroad crossing to Inman Square as there is continual complaint about its condition from the business men on the streets.

If this were done, it would increase our stock of second hand paving blocks which would be used on other streets especially in the manufacturing and heavy teaming districts.

Magazine Street is one of the main arteries of traffic in the city especially for automobiles and has never been permanently constructed. Considerable money has been expended every year for the maintenance of a passable surface and I should recommend as one of the most important pieces of work for the coming year its construction with a smooth permanent surface.

Cogswell Avenue is in urgent need of repair and I recommend that a permanent surface be constructed there this year. Estimates

have been drawn from granite paving on account of the large amount of teaming there.

The approach to Walden Street bridge should be taken up and relaid on a concrete base as the grade is steep and the old blocks in poor condition.

Western Avenue, from Jay Street to the river, should be constructed in the same way that the rest of the avenue has been in the past few years, viz., relay the old block on a concrete base. The present condition of the street should not be allowed to continue.

I would recommend that a larger amount of money be appropriated this year for the maintenance and repair of existing pavements for the real economy in paving work consists in properly treating and repairing our present surfaces. All our tarmacadam work should be "cold treated" early in the year as this treatment prevents disintegration and preserves the older treatment. The bithulithic streets, out of guaranty, should be thoroughly patched and given blanket coatings where necessary. As the area of smooth paved streets, both penetration and sheet work, is increasing every year it must follow that the maintenance charges should be increased to take care of them.

There are many important streets all through the city which are in need of better surfacing especially in the residential district and I shall recommend to the City Government a substantial amount for their construction out of five-year bonds.

There are many others in the business and manufacturing section which should be constructed with the second hand granite blocks on concrete bases, or in some cases, on sand bases with cement grouted top.

The Committee on Roads and Bridges should this year consider some of the more important petitions in the files for the acceptance and construction of unaccepted streets.

It is quite evident from investigations made during the year that additional equipment must be added to the Collection of Ashes Division and I shall recommend considerable changes in the handling and disposal of ashes and light refuse to take effect next fall.

I shall also recommend that permanent dumping facilities be provided and not trust to luck or temporary expedients any longer. Areas of land must be provided either by purchase, rental or lease.

The condition of the shops and stable at Hampshire Street must be remedied very soon as they are getting dilapidated and unsightly.

More stalls must be added to take care of the extra horses and the space now occupied by the office will have to be used for them. I recommend that the old shops be torn down and a new modern building erected that will care for the blacksmith, carpenter and paint shops which will be equipped with necessary machinery for building and repairing our equipment.

I believe that sooner or later the city will be required to build a more sanitary platform and building for garbage in place of the ancient wooden one now in use.

It is my sad duty at this time to chronicle the death of Superintendent of Streets Jeremiah Corkery which occured on January 9, 1916, after a lingering illness. He took office July 1, 1914. Mr. Corkery was a man both well known and well liked throughout the city and had served in the Board of Aldermen. During his term of office he won the respect and confidence of the entire department and his untimely death was sincerely mourned by all who knew him. He was forced to relinquish active duty in the fall and John H. Holt, chief clerk of the department, was designated by the Mayor as Acting Superintendent.

Mr. Holt continued the management of the department through the winter until Feb. 26, 1916, when Mr. James A. Ferguson, Chief Foreman of the department, was designated by Mayor Rockwood as Acting Superintendent.

This report covers the entire year and both Mr. Holt and Mr. Ferguson desire to express their appreciation of the interest and agreeable relations manifested by Mayor Good and Mayor Rockwood. The Committee on Highways of the old Board and the Committee on Roads and Bridges of the new Board are deserving of commendation on the way they handled the business of the department entrusted to them.

The employees in general and foremen are also commended for their satisfactory work during the year. One of our most valuable foreman, Mr. Mathieson L. Scorgie succumbed to pneumonia during the winter and his loss is keenly felt by the department.

Respectfully submitted,

JAMES A. FERGUSON,
Acting Superintendent.

JOHN H. HOLT,
Chief Clerk.

REPORT OF THE COMMISSIONER OF BOSTON AND CAMBRIDGE BRIDGES.

To the Honorable, the City Council:

Gentlemen: In accordance with the provisions of Section 3, Chapter 5, of the Revised Ordinances, the undersigned respectfully submits his report for the year ending March 31, 1916.

HARVARD BRIDGE

Several automobile accidents have occured on this bridge during the year and have damaged the fence and injured persons and I should recommend that the police of both cities take measures to curb speeding and reckless driving over this bridge. The piers on both sides are in dangerous condition and should be repaired as early the coming year as possible.

BROOKLINE STREET BRIDGE

As this bridge was repaved with wood block in 1914, the surface today is in perfect condition. However, in the street car enclosure, considerable planking will have to be done next year.

PRISON POINT BRIDGE

The roadway has required resheathing twice during the past year and will require the same treatment again this year. The decking on this bridge is in dangerous condition and as the travel over this bridge is both dense and heavy it should be entirely redecked next year.

I shall again recommend that an iron fence replace the present wooden one on the draw as the wooden one hinders the proper running of the machinery especially when there is a high wind.

CAMBRIDGE BRIDGE

During the past year Cambridge bridge has been repainted and the pavement has been repaired. The iron and steel work underneath has been thoroughly cleaned and painted and the fence has been

painted also. This work was badly needed and should last for several years. In the paving where the granite blocks had sagged on account of the expansion joints settling, the gullies were taken up and repaved and the surface is now in excellent condition. On the whole, at the present time the bridge is in no need of repairing with the exception of a few of the lamp posts which need attention every year.

RIVER STREET BRIDGE

During the past year the bridge has been entirely resheathed. Next year the underdeck on the draw will have to be rebuilt and the usual replanking must be done.

WESTERN AVENUE BRIDGE

The upstream pier has been rebuilt and is in fairly good condition. The roadway has been resheathed once this year and will require another top again next year. Repairs will be necessary on the down stream pier this coming year.

STADIUM BRIDGE

As the bridge is now completed, it has been turned over to this commission for maintenance. It is a beautiful structure and adds greatly to the appearance of the river surroundings at that point.

I desire at this time to express my appreciation of the cooperation and assistance of the Commissioner of Public Works of Boston, Mr. Edward J. Murphy and to the Engineer's department of the City of Boston for their many courtesies.

Respectfully submitted,

FRANCIS J. SMITH,
Bridge Commissioner.

EXPENDITURES FOR YEAR 1915-16.

(Being the City of Cambridge's portion, or one-half, of the total amount expended.)

	Administration	Anderson Bridge	Cambridge Bridge	Brookline St. Bridge	Harvard Bridge	River St. Bridge	Prison Pt. Bridge	Western Av. Bridge	Totals
Salaries	$1,249 97	.....	$1,595 00	.....	$2,984 30	$2,828 23	$2,989 68	.....	$11,647 18
Light	.....	$156 92	1,640 50	$222 08	861 86	25 62	$12 60	$25 62	2,945 85
Fuel	.....	.....	.....	.....	31 31	12 54	18 81	.....	62 66
Printing, Postage, Stationery	54 19	.....	.....	.....	.....	.....	.....	.....	54 19
Travel Expenses	110 00	.....	.....	.....	.....	.....	.....	.....	110 00
Telephones	27 54	.....	.....	.....	.....	.....	.....	.....	27 54
Roadway and Sidewalk Repairs	.....	.....	.....	64 12	388 85	217 91	440 49	367 56	1,478 93
Repairing Buildings and Piers	.....	.....	.....	.....	.....	165 05	58 38	115 64	339 07
Repairing Iron Fences and Machinery	.....	.....	212 50	.....	120 15	.....	22 95	.....	355 60
Lumber	.....	.....	.....	48 35	141 93	121 96	346 72	158 11	817 07
Cleaning and Sanding Bridges	.....	13 42	78 37	3 50	161 94	.....	.....	.....	257 23
Tools, Hardware and Supplies	.....	4 18	29 00	1 93	38 86	49 16	17 76	22 52	163 41
Totals	$1,441 70	$174 52	$3,555 42	$340 58	$4,729 20	$3,420 47	$3,907 39	$689 45	$18,258 73

SUMMARY OF DRAW-OPENINGS—YEAR 1915-16.

	Tugs			Barges			All Others			Total No. of Vessels			Cargoes	Openings
	Day	Night	Total	Day	Night	Total	Day	Night	Total	Day	Night	Total		
River St.							10	1	11	10	1	11	—	11
Harvard	541	1	542	269	—	269	62	—	84	872	1	873	155	548
Prison Point ...	356	26	382	115	9	124	81	3	84	552	38	590	89	319
Western Ave. ..	—	—	—	—	—	—	6	2	8	6	2	8	—	8
Totals....	897	27	924	384	9	393	159	6	165	1440	42	1482	244	886

MONTHLY SUMMARY-DRAW OPENINGS—1915-16

	River St.			Harvard			Prison Point			Western Ave.		
	Vessels	Cargoes	Openings	Vessels	Cargoes	Openings	Vessels	Cargoes	Openings	Vessels	Cargoes	Openings
1915												
April	—	—	—	116	22	70	42	6	22	—	—	—
May	2	—	2	132	23	81	45	7	25	—	—	—
June	5	—	5	114	22	68	48	6	22	4	—	4
July	—	—	—	98	19	60	74	11	39	—	—	—
August	—	—	—	55	9	36	39	4	17	—	—	—
September	4	—	4	57	11	34	55	8	30	4	—	4
October	—	—	—	58	12	35	47	6	27	—	—	—
November	—	—	—	66	11	42	44	6	23	—	—	—
December	—	—	—	79	15	48	64	11	36	—	—	—
1916												
January	—	—	—	65	9	48	40	8	23	—	—	—
February	—	—	—	9	—	6	50	8	34	—	—	—
March	—	—	—	24	2	20	42	8	21	—	—	—
Totals	11	—	11	873	155	548	590	89	319	8	—	8

REPORT OF BUILDING DEPARTMENT.

April 3, 1916.

Hon. Wendell D. Rockwood, Mayor, Cambridge, Mass.

Dear Sir: In accordance with the revised ordinance of this city I transmit herewith the annual report of the building department for the year ending March 31, 1916.

INSPECTION OF BUILDINGS.

Number of inspections of buildings	3,747
Number of violations noted	198

GAS INSPECTION.

Number of gas inspections	3,901
Number of jobs found not tight or otherwise not according to ordinance	527

INSPECTION OF PLUMBING

Number of applications received and permits granted	448
Number of tests and inspections	2,240
Number of jobs found defective or otherwise not in accordance with ordinances	22

INSPECTION OF ELEVATORS

Number of inspections of elevators	1,027
Number of defects found	1,129

Respectfully,

JEREMIAH F. DOWNEY,
Supt. of Public Buildings.

APPENDIX

For the purpose of comparing statistics with other cities as well as for the information of the United States Government and the various trade papers, it has been found expedient to have the following table cover the period of the last calendar year.

NUMBER OF PERMITS GRANTED AND ESTIMATED COST OF BUILDING OPERATIONS FOR YEAR 1915.

	WOODEN BUILDINGS				FIRE RESISTING BUILDINGS														MISC.		GRAND TOTAL	
					BRICK OR HOLLOW TILE				STONE				CONCRETE				METAL							
	New		Additions, Alterations and Repairs		New		Additions, Alterations and Repair		New		Additions, Alterations and Repairs		New		Additions, Alterations and Repairs		New		Additions, Alterations and Repairs					
	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost	No. of Permits	Cost
Apartment houses	12	$208,700	10	$5,800	7	$520,000	3	$2,450	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	32	$736,950
Churches	...	.....	...	.....	1	85,000	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	1	85,000
Clubhouses	1	1,500	2	800	1	45,000	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	4	47,300
College buildings (Harvard)	...	.....	...	.....	1	35,000	...	.....	...	.....	1	$1,300	...	.....	...	.....	...	.....	...	.....	...	.....	2	36,300
College buildings, (Technology)	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	5	$520,000	...	.....	...	.....	...	.....	...	.....	5	520,000
Dwellings (1 family)	15	77,750	104	53,300	5	61,500	1	1,800	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	125	194,350
" (2 families)	43	251,900	40	23,140	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	83	275,040
" (3 families)	77	452,300	43	28,885	1	3,500	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	121	484,685
Factories	...	.....	16	13,875	3	79,500	13	32,360	...	.....	...	.....	3	125,000	1	$50	...	.....	...	.....	...	.....	36	250,785
Garages	18	3,435	7	2,620	10	26,950	4	3,800	...	.....	...	.....	18	33,195	2	1,550	11	$2,350	1	$80	...	.....	71	73,980
Home (City)	...	.....	...	.....	...	.....	...	.....	...	.....	1	35,000	...	.....	...	.....	...	.....	...	.....	...	.....	1	35,000
Hospitals	...	.....	...	.....	3	158,000	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	3	158,000
Office buildings	2	350	2	1,015	4	105,800	5	28,815	...	.....	...	.....	1	100	...	.....	...	.....	...	.....	...	.....	14	136,080
Schools	...	.....	3	175	1	75,000	2	1,000	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	6	76,175
Stables	...	.....	7	1,790	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	7	1,790
Storage buildings	28	18,870	21	18,890	3	14,500	3	1,595	...	.....	...	.....	...	.....	...	.....	7	20,400	...	.....	...	.....	62	74,255
Stores	4	2,250	31	11,930	8	107,180	10	17,240	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	53	138,600
Theatres	...	.....	...	.....	1	60,000	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	1	60,000
Miscellaneous (signs, buildings razed, moved, etc.)	....	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	70	5,040
Totals	200	$1,017,055	286	$162,220	49	$1,376,930	41	$89,060	...	.....	2	$36,300	27	$678,295	3	$1,600	18	$22,750	1	$80	70	$5,040	697	$3,389,330

REPORT OF THE CITY MESSENGER.

April 1, 1916.

To the Honorable, the City Council, Cambridge, Mass.

Gentlemen: In compliance with the provisions of Section 3 of Chapter 8 of the Revised Ordinances of 1892, I submit my report for the year ending March 31, 1916, as follows, viz:

POSTAGE AND STATIONERY

Stock on hand April 1, 1915	$449 44
Purchased during the year	1,987 55
	$2,436 99

Deliveries were as follows:

Assessors' Department	$59 47
Auditing Department	30 17
Board of Health Department	73 41
Cemetery Department	57 50
City Clerk Department	186 20
City Messenger Department	57 39
Clerk of Committees	61 65
City Council Expenses	78 79
Election Expenses (City Clerk)	116 27
Electrical Department	61 60
Engineering Department	21 29
Executive Department	135 99
Fire Department	18 47
Free Employment Department	47 55
Municipal Hospital	1 00
Inspector of Animals	1 18
Inspector of Buildings	37 01
Inspector of Milk and Vinegar	18 56
Law Department	17 70
Overseers of Poor Department	71 98
Park Department	41 57
Police Department	34 63
Public Library Department	168 00
Registrars of Voters	33 15
Sealer of Weights and Measures	8 00
Sewer Department	16 05
Special Tax Commission	13 21
Soldiers' Aid Department	35 67
Street Department	106 69
Treasury Department	23 36
Water Department	117 16
Stock on hand, March 31, 1916	786 32
	$2,436 99

During the municipal year, annual documents have been received from the following cities and towns and are on file in the reference library:

Arlington	1914-15	Lawrence	1914
Bangor, Me.	1915	Lowell	1914
Belmont	1915	Lynn	1914
Beverly	1914	Marlboro	1914
Brockton	1914-15	Nashua, N. H.	1915
Brookline	1914-15	Newburyport	1915
Chelsea	1914	Newport, R. I.	1915
Chicopee	1914	Newton	1915
Concord, N. H.	1914	Taunton	1915
Everett	1914	Pittsfield	1915
Fall River	1914	Somerville	1915
Fitchburg	1914	Springfield	1915
Gloucester	1914	Waltham	1914
Haverhill	1914	Watertown	1915
Holyoke	1914	Woburn	1914

Respectfully submitted,

A. FRANK MONTGOMERY,
City Messenger.

REPORT OF THE CAMBRIDGE WATER BOARD.

April 1, 1916.

To the Honorable the City Council of the City of Cambridge.

The fifty-first annual report of the Cambridge Water Board for the year ending March 31, 1916, is herewith submitted for your consideration.

The reports of the Superintendent of Water Works, Water Registrar and Commissioners of the Sinking Fund of the City give in detail the operations and financial condition of the water works.

FINANCIAL STATEMENT IN BRIEF

Total cost of the water works to March 31, 1915	$6,663,567 21
Expended during the past year on Construction Account	36,715 08
Total cost to March 31, 1916	$6,700,282 29

WATER WORKS BOND ACCOUNT

Whole amount of bonds outstanding	$2,501,600 00
Less value of water debt sinking fund	1,681,685 47
Net water debt on March 31, 1916	$819,914 53

During the past year the following water bonds matured and were paid, viz:

April 1, 1915, $200,000 4%.
May 1, 1915, $12,500 3½% serial.
July 1, 1915, $3,500 4% serial.
August 1, 1915, $200,000 4%.
September 1, 1915, $1,000 3½% serial.
November 1, 1915 $500, 4%.
December 1, 1915, $1,000, 3½% serial.
February 1, 1916, $1,500, 4% serial.
March 1, 1916, $500, 4%.
Total, $420,500.

CONSUMPTION OF WATER

The total consumption of water for the year ending April 1, 1915, was	3,434,421,300	gallons
The total consumption of water for the year ending April 1, 1916, was	3,409,230,800	"
Decrease from last year	25,190,500	"

Average daily consumption in 1916	9,314,838	"
Average daily consumption in 1915	9,409,373	"
Decrease from last year	94,535	"

In 1914, when the present inspection system was inaugurated, the average daily consumption of water was 10,948,142 gallons. The daily average consumption last year was 9,314,800 gallons, or 1,633,342 gallons per day less than in 1914. To this should be added the amount (250,000 gallons per day) escaping from Payson Park reservoir and conveyed back to Fresh Pond, making a total saving of 1,883,000 gallons per day.

The large decrease in the daily consumption has been made possible by the present system of inspection and the results obtained in our opinion fully justify the employment of the additional inspectors necessary to properly carry on the work.

The Board has under consideration what is known as a pitometer survey of the water mains to detect leaks. The experience of other cities where such surveys have been made shows a large saving is effected by detecting and repairing leaks in the mains and we are confident a material further saving in consumption can be obtained by this means.

WATER SUPPLY

Hobbs Brook, Stony Brook and Fresh Pond reservoirs are full to overflowing. There is sufficient water stored in these reservoirs to supply the city for a year to come.

FILTRATION

March 19, 1915, the Board engaged the services of Mr. George A. Johnson to prepare plans and specifications for a filtration system, and to report what was necessary to be done to repair Payson Park reservoir.

October 8, 1915, Mr. Johnson presented plans for the filtration plant, and after their careful consideration by the Board the plans and specifications were sent (October 11, 1915) to the State Department of Health for approval. The State authorities still have the plans under consideration, but we hope and expect to receive notice of their approval very soon.

Mr. Johnson has also reported on the defects in Payson Park reservoir and their remedy.

METERED WATER

After a study of the rates for metered water for a period of eleven months the Board, on March 23, 1916, sent a communication to the Mayor and City Council recommending the rescinding of the present schedule of rates for metered water and the adoption of a flat rate of ten cents per hundred cubic feet. The amended charge, if adopted, will reduce the future bills of three hundred or more industrial concerns, as well as those of about 5,500 domestic consumers. The ordinary domestic consumer who is now paying fifteen cents per hundred cubic feet for his water will obtain the very material saving of 33 per cent. in his future charges.

METERS

Two hundred eighty-four (284) meters were placed during the year, making the total number now in use five thousand eight hundred one (5,801), 34.7 per cent. of the services now being metered. If the recommendation of the Board that a flat rate of ten cents per hundred cubic feet is adopted we anticipate a much larger number of applications for meters during the coming year, from domestic consumers. This will reduce the receipts somewhat, but on the other hand will help to conserve the water by making the consumers more careful to repair defective fixtures and prevent waste.

IN GENERAL

There has been paid into the Sinking Fund this year $32,400.67 in excess of the legal requirements. The fund is now in excellent condition and need give the Board no anxiety as to its being amply strong to meet the water bonds as they become due. Believing as we do in a pay-as-you-go policy, we recommend that future expenditures for construction purposes be paid so far as possible from the receipts from water rates, rather than carry an unnecessarily large amount to the sinking fund in the form of surplus receipts.

JAMES J. SCULLY,
B. E. McDERMOTT,
JOHN P. CONROY,
JOSEPH E. DOHERTY,
JOHN F. O'BRIEN,

Cambridge Water Board.

REPORT OF THE WATER REGISTRAR.

Water Registrar's Office, April 1, 1916.

Mr. Edward W. Quinn, Chief Supt. Cambridge Water Works.

In compliance with the requirements of the city ordinance I present the fifty-first annual report of the operations of this department showing the receipts, expenditures, abatements, etc., for the year ending March 31, 1916.

Amount of bills remaining unpaid March 31, 1915:

Water rates	$8,552 01	
Supplies and repairs	2,719 17	
Off and on	101 00	
Seals	13 00	
Maintenance account	2,073 63	
Construction account	63 91	
		$13,522 72

Amount of bills placed in hands of city treasurer for collection from April 1, 1915 to March 31, 1916:

Water rates	$402,050 84	
Supplies and repairs	9,150 42	
Off and on	156 00	
Rents	630 90	
Seals	30 00	
Maintenance account	5,395 53	
Construction account	6,315 91	
		423,729 60
		$437,252 32

There has been collected:

Water rates	$396,619 53
Supplies and repairs	8,215 82
Off and on	143 00
Rents	630 90
Seals	26 50
Maintenance account	5,958 37
Construction account	6,315 91

There has been abated:

Water rates, off and on, and seals, supplies and repairs, and construction account	4,669 26

There remains uncollected:

Water rates	$11,197 54	
Supplies and repairs	1,930 07	
Off and on	113 00	
Seals	13 25	
Maintenance account	1,409 64	
Construction account	9 53	
		$437,252 32

EXPENDITURES

Construction account, from April 1, 1915, to March 31, 1916 (this item includes an expenditure of $2,383.75 for Detector Meters and setting same, which amount is eventually returned to the department in the form of revenue)	$39,098 83	
Maintenance account, from April 1, 1915, to March 31, 1916	160,581 38	
Serial bonds paid	20,500 00	
		$220,180 21

ABATEMENTS

Water rates, supply and repair and construction bills from April 1, 1915, to March 31, 1916, to the amount of	$4,669 26

REFUNDS

Water rates from April 1, 1915, to March 31, 1916, to the amount of	$1,711 17	
Which amount deducted from receipts	396,619 53	
Leaves net receipts for water	$394,908 36	
Add off and on, rents, fines, seals, and maintenance and supply accounts	14,974 59	
Makes net receipts of rates, fines, etc		$409,882 95

Statement of yearly revenue received from water rates since the purchase of the works by the City:

From April 28, 1865, to December 1, 1865	$32,367 19
From December 1, 1865, to December 1, 1866	40,073 27
From December 1, 1866, to December 1, 1867	53,733 62
From December 1, 1867, to December 1, 1868	63,747 42
From December 1, 1868, to December 1, 1869	76,149 30
From December 1, 1869, to December 1, 1870	92,605 95
From December 1, 1870, to December 1, 1871	111,782 65
From December 1, 1871, to December 1, 1872	127,201 30
From December 1, 1872, to December 1, 1873	146,117 32
From December 1, 1873, to December 1, 1874	153,634 27
From December 1, 1874, to December 1, 1875	138,880 37
From December 1, 1875, to December 1, 1876	179,166 76
From December 1, 1876, to December 1, 1877	154,843 59
From December 1, 1877, to December 1, 1878	157,443 91
From December 1, 1878, to December 1, 1879	164,681 90
From December 1, 1879, to December 1, 1880	173,325 49
From December 1, 1880, to December 1, 1881	170,062 73

From December 1, 1881, to December 1, 1882	177,430 80
From December 1, 1882, to December 1, 1883	179,361 89
From December 1, 1883, to December 1, 1884	161,526 27
From December 1, 1884, to December 1, 1885	185,544 36
From December 1, 1885, to December 1, 1886	199,404 43
From December 1, 1886, to December 1, 1887	204,748 64
From December 1, 1887, to December 1, 1888	211,156 27
From December 1, 1888, to December 1, 1889	221,124 70
From December 1, 1889, to December 1, 1890	231,116 32
From December 1, 1890, to December 1, 1891	227,054 53
From December 1, 1891, to December 1, 1892	237,527 08
From December 1, 1892, to December 1, 1893	242,219 78
From December 1, 1893, to December 1, 1894	250,032 71
From December 1, 1894, to December 1, 1895	268,813 62
From December 1, 1895, to December 1, 1896	281,030 00
From December 1, 1896, to December 1, 1897	291,457 62
From December 1, 1897, to December 1, 1898	297,129 78
From December 1, 1898, to December 1, 1899	302,569 00
From December 1, 1899, to December 1, 1900	319,479 37
From December 1, 1900, to December 1, 1901	320,468 01
From December 1, 1901, to December 1, 1902	323,000 53
From December 1, 1902, to December 1, 1903	333,777 34
From December 1, 1903, to December 1, 1904	339,109 27
From December 1, 1904, to December 1, 1905	343,916 00
From December 1, 1905, to December 1, 1906	355,768 47
From December 1, 1906, to December 1, 1907	373,151 35
From December 1, 1907, to March 31, 1909 (16 months)	410,533 41
From April 1, 1909, to March 31, 1910	351,264 86
From April 1, 1910, to March 31, 1911	375,722 42
*From April 1, 1911, to March 31, 1912	353,891 02
From April 1, 1912, to March 31, 1913	385,475 71
From April 1, 1913, to March 31, 1914	383,342 41
From April 1, 1914, to March 31, 1915	396,827 26
From April 1, 1915, to March 31, 1916	394,908 36

*Reduction in water rate schedule.

COMPARATIVE STATEMENT

	1914-15		1915-16	
CONSTRUCTION ACCOUNT				
Hobbs Brook Conduit				
Received				
Balance from 1913-4 appropriation.....	$9,579 39			
Balance from 1914-5 appropriation.....			$9,121 47	
		$9,579 39		$9,121 47
Expended				
Land settlements	457 92		5,662 64	
Balance to credit of 1915-6.....	9,121 47			
Balance to credit of 1916-7.....			3,458 83	
		$9,579 39		$9,121 47
CONSTRUCTION ACCOUNT				
General				
Received				
From bonds issued.....	$45,000 00			
Balance from 1914 appropriation.....	3,314 91			
Balance from 1914-5 appropriation.....			$25,238 49	
Transferred from receipts.....			7,288 25	
		$48,314 91		$32,526 74
Expended				
Sundry bills and pay rolls.....	$23,076 42		$31,052 44	
Balance to credit of 1915-6.....	25,238 49			
Balance to credit of 1916-7.....			1,474 30	
		$48,314 91		$32,526 74
CONSTRUCTION ACCOUNT				
Detector Meters				
Received				
Balance from 1914 appropriation.....	$3,284 38			
Balance transferred 1914-5.....			$10,000 00	
		$3,284 38		$10,000 00
Expended				
For meters and setting.....	$1,363 57		$2,383 75	
Balance to credit of 1915-6.....	1,920 81			
Balance to credit of 1916-7.....			7,616 25	
		$3,284 38		$10,000 00

COMPARATIVE STATEMENT

	1914-15		1915-16	
MAINTENANCE ACCOUNT				
Received				
From rates, fines, etc.	$415,122 52		$416,209 00	
Accrued interest on bonds sold	95 00			
Premium on bonds sold			976 50	
Reappropriations			12,477 25	
		$415,217 52		$429,662 75
Expended				
Salaries of Registrar, Superintendent, Inspectors and Clerks	$20,546 33		$22,790 38	
General expenses and reservoirs	98,716 11		94,784 80	
Pumping salaries and other expenses	32,540 33		39,286 37	
Ice for drinking fountains	747 68		719 83	
Services of city solicitor and city treasurer	2,500 00		3,000 00	
Abatements and refunds	5,491 28		6,380 43	
Sinking fund	87,255 00		87,255 00	
Interest on water debt	111,132 75		103,197 75	
Serial bond paid	19,000 00		20,500 00	
Reappropriations	12,477 25		19,347 50	
Balance due sinking fund	24,810 79		32,400 69	
		$415,217 52		$429,662 75

Balance due sinking fund (excess of receipts $32,400 69
which amount has been turned over to the Commissioner of the water works sinking fund as required by law.

The monthly house-to-house inspection for leaks and waste has been continued with satisfactory results. This inspection has reduced the consumption of water at least 2,000,000 gallons a day as compared with that of 1914.

Respectfully submitted,

WALTER H. HARDING,
Registrar.

REPORT OF THE SUPERINTENDENT OF THE CAMBRIDGE WATER WORKS.

Cambridge, Mass., April 1, 1916.

To the Honorable Water Board of the City of Cambridge.

Gentlemen: I hereby submit my annual report for the year extending from April 1, 1915 to March 31, 1916.

The tables following will give an account of the amount of pumpage during the year, the comparison with last year's and that for the past ten years. It is interesting to note that although the decrease in pumpage is small, still it is a decrease.

Since November 1, 1915, (or 152 days) our Leavitt Engine has worked only 30 days and from the time of the stopping for repairs of this engine the pumpage has steadily increased. If we keep in mind the amount that we should allow for the slip of the pumps which worked the balance of the time, we can safely deduct an estimate in daily pumpage of 560,000 gallons for the past three months or 51,000,000 gallons.

And, allowing for the leakage in Payson Park Reservoir which our Engineers have figured as 500,000 gallons per diem, a total deduction of 234,000,000 gallons can be deducted from pumpage, 3,409,230,800, leaving a definite amount for the total "consumption" for the year of 3,175,230,800 gallons.

TOTAL PUMPAGE FOR THE YEAR ENDING MARCH 31, 1916, COMPARED WITH THE YEAR ENDING MARCH 31, 1915.

	Total Pumpage Year Ending March 31, 1915	Total Pumpage Year Ending March 31, 1916	Increase	Decrease
	Gallons	Gallons	Gallons	Gallons
April	320,021,200	255,675,300	.....	64,345,900
May	317,697,800	272,146,400	.....	54,551,400
June	312,716,400	284,079,400	.....	28,637,000
July	299,428,400	271,165,200	.....	28,263,200
August	272,348,000	257,694,500	.....	14,653,500
September	275,140,400	265,645,400	.....	9,495,000
October	273,411,800	269,724,400	.....	3,687,400
November	254,020,000	273,085,100	19,065,100	.....
December	285,180,800	295,461,000	10,280,200	.....
January	284,674,000	329,344,300	44,670,300	.....
February	260,996,700	307,783,800	46,787,100	.....
March	278,785,800	327,426,000	48,640,200	.....
	3,434,421,300	3,409,230,800	.....	25,190,500

Comparative Total Pumpage During the Past Ten Years.

Year	Annual Pumpage	Increase or Decrease	Average Daily Pumpage	Increase or Decrease	Average Daily Pumpage per Capita	Estimated Population
	Gallons	Gallons	Gallons	Gallons	Gallons	
1907	4,038,875,720	652,695,120 increase	11,065,413	1,788,206 increase	110.00	99,912
1908	3,842,170,340	196,705,380 decrease	10,497,733	567,680 decrease	104.00	100,000
1909	3,692,451,980	149,718,360 "	10,116,307	381,426 "	101.00	100,000
1910	3,678,588,720	13,863,260 "	10,078,325	37,982 "	97.84	103,000
1911	3,794,689,680	116,100,960 increase	10,396,410	318,085 increase	99.16	104,839
1912	3,868,026,800	73,337,120 "	10,568,380	171,970 "	100.00	104,839
1913	3,827,528,600	40,498,200 decrease	10,486,380	82,000 decrease	95.33	110,000
1914	3,985,123,900	157,595,300 increase	10,918,147	431,767 increase	95.77	112,000
1915	3,434,421,300	550,702,600 decrease	9,409,373	1,508,774 decrease	82.53	114,000
1916	3,409,230,800	25,190,500 "	9,314,838	94,535 "	81.70	114,000

Total Rainfall for the Past Year at Fresh Pond, Stony Brook and Hobbs Brook Reservoirs

	Fresh Pond Reservoir	Stony Brook Reservoir	Hobbs Brook Reservoir
1915	Inches	Inches	Inches
April	2.79	3.07	1.55
May	1.57	1.62	3.13
June	5.03	1.89	1.42
July	6.50	6.63	10.37
August	6.85	5.69	6.75
September	1.05	1.03	.85
October	2.04	2.90	3.05
November	1.83	2.77	2.60
December	3.03	5.21	5.05
1916			
January	1.06	1.18	1.52
February	4.67	5.69	5.00
March	3.28	4.22	4.03
Total (inches)	39.70	41.90	45.32

Total Rainfall for the Past Ten Years at Fresh Pond, Stony Brook and Bobbs Brook Reservoirs.

	Fresh Pond Reservoir	Stony Brook Reservoir	Hobbs Brook Reservoir
	Inches	Inches	Inches
	Year extending from December 1 to November 30		
1907	36.55	42.32	39.20
1908	29.77	34.93	31.50
	Year extending from April 1 to March 31		
1909	30.67	34.87	34.77
1910	34.97	37.83	35.08
1911	28.86	31.78	28.26
1912	35.60	42.63	39.90
1913	30.38	41.22	40.26
1914	39.24	42.13	40.71
1915	31.11	34.44	33.02
1916	39.70	41.90	45.32

FRESH POND RESERVOIR

The average height of the water in this Reservoir during the year was 16.29.

The highest elevation of 17.11 was reached May 22, 1915, and the lowest elevation of 15.00 was registered January 19, 1916.

The total rainfall during the year was 39.70 inches.

This precipitation is 8.59 inches more than last year's record.

The usual work on the driveways and around the Pond has been done as well as the work in connection with the suppressing of the gypsy and browntail moths.

This year the fence has required a great deal of attention and has been repaired.

A new wire fence has been constructed on Huron Avenue.

The standing grass in the parks has been sold as usual by auction to the highest bidders.

During the season, from May to November, fishing in the Pond has been permitted from boats daily, under the supervision of an employee.

FRESH POND RESERVOIR.

	Lowest Elevation During Month	Highest Elevation During Month	Rainfall by Month
1915			
April 12	.....	16.91	2.79
April 30	16.20	.....	.....
May 1	16.36	.....	1.57
May 22	.....	17.11	.....
June 3	.....	16.64	5.03
June 30	15.26	.....	.....
July 1	15.36	.....	6.50
July 26	.....	17.	.....
August 10	15.68	.....	6.85
August 25	.....	16.98	.....
September 2	16.76	.....	1.05
September 22	.....	16.99	.....
October 4	.....	16.80	2.04
October 31	15.96	.....	.....
November 1	.....	15.98	1.83
November 30	15.18	.....	.....
December 1	15.21	.....	3.03
December 31	.....	16.25	
1916			
January 9	.....	16.63	..... 1.06
January 18	15.	.....	.....
February 1	15.73	.....	4.67
February 29	.....	17.04	.....
March 9	.....	17.10	3.28
March 25	16.79	.....	.....

PUMPING STATION

The new trestle, track and scales have been installed.

These with the new coal shed, finished last year, furnish the department with a well equipped outfit for handling and weighing coal.

Complying with the recommendations of the State Inspector of Boilers, we have awarded a contract for a new boiler to replace one that he condemns. It will be built during the summer.

The report of the Chief Engineer, appended, will give in detail the account of the changes made and work performed during the year.

In November, our large Leavitt Engine was stopped for repairs and has done very little work since that date.

Thorough repairs have been planned and we expect that it will result in a showing of decreased pumpage. In our figures on pumpage we have made no allowance for slip of pump etc., except when specified.

FRESH POND PUMPING STATION

	RUNNING TIME			PUMPAGE		COAL CONSUMED		Rainfall	Average Height of Pond	WEIR
	Engine No.	Total	Daily Average	Total	Daily Average	Total	Daily Average			
1915		Hours	Hours	Gallons	Gallons	Pounds	Pounds	Inches		Gallons
April	7	375.00	12.15	255,675,300	8,522,510	355,500	11,850	2.79	16.63	198,000,000
May	7	338.50	10.58	272,146,400	8,778,916	340,800	10,993	1.57	16.84	234,000,000
June	7	353.25	12.32	284,079,400	10,145,692	361,500	12,050	5.03	15.87	178,250,000
July	7	336.50	10.56	271,165,200	8,747,264	345,900	11,158	6.50	16.38	239,750,000
August	7	319.25	10.50	257,694,500	8,312,725	337,000	10,871	6.85	16.35	277,000,000
September	7	330.50	11.02	265,645,400	8,854,846	352,100	11,736	1.05	16.87	349,000,000
October	7	335.75	11.16	269,724,400	8,700,787	360,100	11,616	2.04	16.48	299,000,000
November	7	77.25	11.03							
	2	395.50	18.83							
	1	385.50	18.36	273,085,100	9,102,836	563,224	18,774	1.83	15.55	280,750,000
	2	468.00	18.72							
December	1	623.00	20.73	295,641,000	9,531,000	689,300	22,235	3.03	15.80	378,750,000
1916										
January	7	164.50	12.65							
	2	340.00	18.88							
	1	376.00	20.88	329,344,300	10,624,009	650,300	20,977	1.06	15.76	325,750,000
February	7	127.75	12.77							
	2	380.00	20.00							
	1	399.50	21.02	307,783,800	10,613,234	657,500	22,672	4.67	16.52	435,000,000
	2	699.50	23.32							
March	1	642.00	22.14	327,426,000	10,562,129	784,000	25,290	3.28	16.95	265,750,000
				3,409,230,800		5,797,224		39.70		3,461,000,000
Daily average					9,314.838		15.839		16.29	9,456,284

OPERATING EXPENSES AT THE PUMPING STATION

Advertising	$27 92		
Analysis	15 15		
Building repairs	109 30		
Car tickets	13 00		
Disenfectants	3 67		
Electric work and supplies	76 72		
Engines and boilers, repairs	3,037 74		
Expenses to Taunton	4 00		
Expressage	22 21		
Fire extinguisher, supplies	5 00		
Fuel	13,187 96		
Gauge equipment	5 58		
Hardware, tools, etc	401 21		
Hearing, Danehy case	234 61		
Ice	25 95		
Inspection of boilers	20 00		
Lockers	57 82		
Medical attendance (injured man)	4 00		
Oil, waste and packing	936 54		
Oil clothing, etc., for men	11 76		
Pipe and fittings	12 83		
Stationery and printing	3 70		
Telephone	83 13		
Towels, rent of	20 50		
		$18,220 30	
Coal shed		2,850 10	
Generator		107 70	
Receiver		725 00	
Scales		1,511 84	
Sidetrack and bunter		972 46	
Trestle		970 00	
			$25,457 40
Salaries, labor, etc.			13,828 97
			$39,286 37

FORTY-INCH STEEL MAIN

One of the leaks on the 40-inch main occured at Fresh Pond Pumping Station and the second, caused by electrolysis, was at Huron Avenue and Standish Street.

This leak which occured in December, 1915, was a very serious as well as an expensive one to repair.

Outside of the large quantity of water which was wasted we were obliged to care for this water and the services of an engine from the Fire Department were engaged.

The cost of repairs of this leak was—labor, $650.40, and materials, $253.51, or a total of $903.91.

PAYSON PARK RESERVOIR

The usual amount of work for the care and upkeep of the reservoirs, buildings and grounds, has been accomplished this year.

The gate house and tool house have been painted.

Both basins have been thoroughly cleaned.

The test holes which were opened for the investigation of conditions around the reservoir, preliminary to the installation of the filtration system, have been filled but will be given more attention so soon as conditions will permit.

The fence around the basins needs painting badly.

This work has been postponed pending the probability of our having a filtration plant.

PIPE YARD

The buildings at the pipe yard are in good condition. Although there have been several additions and improvements made during the past years, I would recommend for the great convenience of having the separate department, that the construction of a new meter shop be considered. This could be built over the present meter shop and the part that now is occupied can be made into a much needed garage.

There is not accommodation for all of the trucks and autos in our present garage.

The fence between the sewer yard and our yard is still needed and I hope that during the coming year we may find opportunity to build it.

LEAKAGE

One hundred eighty-seven leaks were reported and repaired by the department.

139 on supplies
8 on hydrants
10 on main pipe joints
10 on gates
2 on blow-offs
2 on standpipes (street watering)
1 on service box
3 on 4-inch main pipes
5 on 6-inch main pipes
1 on 8-inch main pipe
1 in 12-inch main pipe
1 on 24-inch main pipe
1 on 30-inch main pipe
2 on 40-inch steel main
1 on 63-inch conduit

Five leaks on supplies in street, one on 6-inch main and one on 40-inch main were caused by electrolysis.

There were 11,683 leaks on house fixtures found by our inspectors on their monthly house to house inspections.

The property owners were notified and the leaks were repaired by them.

The finding and stopping of so many leaks has caused an appreciable reduction in the pumpage and we hope this year to further reduce this leakage from house fixtures.

MAIN PIPE

As in the past years, we are endeavoring to increase the sizes of our main pipes from the small sizes, laid so many years ago, and so give an ample supply as well as better fire protection to our residents.

During the year we have renewed 5,360 feet and laid, as extensions, 5,368 feet, a total of 10,728 feet; and during the past eleven years we have renewed over 9 miles of pipe and laid, as extensions, about 14 miles.

I think it is well to emphasize this exhibit as it will show that we are and always have been working for the interests of the City for ample supply and adequate fire protection.

We are in constant consultation with the Chief of the Fire Department in regard to the hydrants on these new mains.

They are to be placed at not more than 300 feet apart in thickly settled communities.

We intend to relay all 4-inch pipe so soon as it is possible. It will take some time to accomplish this as we have about 16 miles of it in the City, but if the appropriation for such renewal is made the work can be carried an annually and, so far as the Water Department in this direction is concerned, the standing required by the National Board of Fire Underwriters be attained.

We feel that the public at large has small conception of the work that has been done for many years to so well supply the City.

The account of main pipe, as extensions and renewals, will be found in the table following;

MAIN PIPE EXTENSIONS AND RENEWALS—APRIL 1, 1915 to MARCH 31, 1916

	Extensions		Renewals		Gates
	Feet	Size Inch	Feet	Size Inch	Size Inch
Alpine Street at Concord Avenue	13	6	....	....	6
Athens Street from Mt. Auburn Street, (south)	....	....	280	6	....
Bay State Road at Concord Avenue	13	6	....	....	6
Berkstire Place at Berkshire Street	13	4	....	....	4
Berkshire Place at Portland Street	15	4	....	....	4
Berkshire Street from Bristol Street to Berkshire Place	95	6	....	....	....
Berkshire Street from Berkshire Place to Plymouth Street	....	....	150	6	....
Birch Street at Concord Avenue	13	6	....	....	6
Boylston Street, extending to Charles River Road	250	6	....	....	....
Buena Vista Park from Richdale Avenue to connect	206	6	....	....	....
Buena Vista Park at Richdale Avenue	....	....	....	....	6
Cambridge Street at Distillhouse Street, east	....	....	....	....	8
Cambridge Street at Distillhouse Street, west	....	....	....	....	8
Charles River Road from Boylston Street, west	32	6	....	....	6
Chestnut Street	2	4	....	....	4
Concord Avenue at Lake View Avenue	....	....	....	....	6
Dale Street at Concord Avenue	13	6	....	....	6
Distillhouse Street at Cambridge Street (24″)	....	....	....	....	6
Distillhouse Street at Cambridge Street (8″)	....	....	....	....	6
Distillhouse Street, supply for Purity Distilling Company	849	6	....	....	....
Dodge Street at Grigg Street	....	....	....	....	6
Dudley Street from Cedar Street to Clay Street	....	....	916	6	....
Dudley Street at Cedar Street, west	....	....	....	....	6
Dudley Street at Montgomery Street, east	....	....	....	....	6
Dudley Street at Clay Street, east	....	....	....	....	6
Emily Street connecting Brookline Street	19	6	....	....	....
Ericsson Street at Thingvilla Avenue	120	4	....	....	....
Fairmont Street from Magazine to Pleasant Street	....	....	522	6	....
Fairmont Street at Magazine Street	....	....	....	....	6
Fayerweather Street at Concord Avenue	15	6	....	....	6
Fern Street at Concord Avenue	13	6	....	....	6
Fifth Street from Cambridge Street to Gore Street	....	....	215	6	....
Fresh Pond Parkway from Huron Avenue west to Larch Road	1180	8	....	....	....
Fresh Pond Parkway at Huron Avenue, west	....	....	....	....	8
Fresh Pond Parkway at Larch Road, east	....	....	....	....	8
Gerry Street at Mt. Auburn Street	2	6	....	....	6
Grigg Street from Howard Street to Putnam Avenue	....	....	780	8	....
Grigg Street at Howard Street	....	....	....	....	8
Grigg Street at Putnam Avenue	....	....	....	....	8
Hamlin Street at Berkshire Street	13	6	....	....	....
Hancock Street at Harvard Street	....	....	....	....	6
Hingham Street from Banks Street west to Charles River Road	232	6	....	....	....
Hingham Street at Banks Street, west	....	....	....	....	6
Holworthy Place	66	4	....	....	....
Howard Street from Kinnaird Street to Grigg Street	....	....	613	8	....
Howard Street at Kinnaird Street	....	....	....	....	8
Huron Avenue connecting 30″ and 24″ at Reservoir Street	76	24	....	....	24

MAIN PIPE EXTENSIONS AND RENEWALS—APRIL 1, 1915 to MARCH 31, 1916

Continued

	Extensions		Renewals		Gates
	Feet	Size Inch	Feet	Size Inch	Size Inch
Larchwood Drive from Fresh Pond Parkway near Huron Avenue	152	6	....	....	....
Larchwood Drive at Fresh Pond Parkway, north	....	....	....	....	6
Larchwood Drive from Fresh Pond Parkway, near Larch Road	280	6	....	....	....
Larchwood Drive, near Larch Road at Fresh Pond Parkway, north	....	....	....	....	6
Line Street	361	6	....	....	....
Magee Street from Grigg Street	37	8	....	....	8
Marie Avenue to connect Maple Avenue	115	6	....	....	....
Marie Avenue at Maple Avenue	....	....	....	....	6
Mead Street from Cogswell Avenue to Walden Street	....	....	340	6	....
Meadow Way from Larchwood Drive, north	54	6	....	....	....
Meadow Way from Larchwood Drive, north	....	....	....	....	6
Murdock Street from Hampshire Street to Gardner Street	....	....	435	6	....
Murdock Street at Hampshire Street, south	....	....	....	....	6
Murdock Street at Gardner Street, north	....	....	....	....	6
New Street at Concord Avenue	....	....	32	2	....
Osborn Street from Main Street	....	....	357	6	....
Osborn Street at Main Street	....	....	....	....	6
Plymouth Street from Portland Street to Webster Avenue	....	....	720	6	....
Plymouth Street at Berkshire Street, east	....	....	....	....	6
Plymouth Street at Berkshire St., west	....	....	....	....	6
Plymouth Street at Webster Avenue	....	....	....	....	6
Salem Street at Watson Street	2	4	....	....	4
Saville Street from Walden Street, west	179	6	....	....	....
Saville Street at Walden Street, west	....	....	....	....	6
Scott Street to near Beacon Street	62	6	....	....	....
Shady Hill Square from Holden Street	438	6	....	....	....
Shady Hill Square at Holden Street	....	....	....	....	6
Shady Hill Square at Holden Street	....	....	....	....	6
Smart Street (blow-off)	3	1½	....	....	....
South Street at Boylston Street	....	....	....	....	6
Thingvalla Avenue connecting Ericsson Street	11	4	....	....	....
Vassar Street, from Endicott Street to Heinz's	424	8	....	....	....
Vassar Street at Endicott Street, east	....	....	....	....	8
Vassa Street at Endicott Street, west	....	....	....	....	8

MAIN PIPE LAID, ETC., DURING YEAR

	24 Inch	8 Inch	6 Inch	4 Inch	2 Inch	1½ Inch	Total
Length, in feet, of pipe (extensions)	76	1641	3419	229	.....	3	5368
Length, in feet, of pipe (renewals)	.....	1393	3935	.....	32	.....	5360
Total Length, in feet	76	3034	7354	229	32	3	10728
Number of gates	1	10	33	4	.....	.....	48
Number of hydrants	.....	.....	.....	.....	.....	.....	31
Number of gate boxes	.....	.....	.....	.....	.....	.....	81
Number of small wooden boxes	.....	.....	.....	.....	.....	.....	12
Number of wooden boxes with meters	.....	.....	.....	.....	.....	.....	6
Number of concrete boxes with meters	.....	.....	.....	.....	.....	.....	21
Number of brick chambers with detector meters	.....	.....	.....	.....	.....	.....	4

SUPPLIES

Up to the beginning of the year we had laid, as new supplies, 16,549. As we have laid one hundred seventy-five during this year our total number at date is 16,724.

Twelve of these supplies that were laid this year were of cast iron pipe and the others were of lead lined iron pipe.

The cast iron supplies are as follows:

*Blacker & Shepard Co	80 State Street	6-in.
*J. L. Hammett Co	Main Street	6-in.
*A. R. Hyde & Co	Columbia Street	4-in.
Longfellow Trust Association	Massachusetts Avenue	4-in.
*Mass. Institute of Technology	Massachusetts Avenue	8-in.
xMass. Institute of Technology	Vassar Street	8in.
*Hugh E. McGoldrick	339 Franklin Street	4-in.
*New England Tel. & Tel. Company	51 Inman Street	4-in.
F. W. Norris & Co	Charles River Rd. and Gerry St.	4-in.
*Penn Metal Company	Sidney Street	6-in.
xPurity Distilling Company	Distillhouse Street	6-in.
*H. M. Putney	Windsor Street	6-in.

xEquipped with Protectus meter when supply was laid.
*Equipped with Detector meter when supply was laid.

In connection with the renewal of main pipes one hundred twenty-two supplies were renewed.

The renewals of supplies because of corrosion or leakage, etc., etc., were six hundred fifteen, thus making the total number of supplies renewed during the year seven hundred thirty-seven (737).

The following table will give an idea of the number of supplies cleaned for the past five years.

This system of cleaning supplies has proven beneficial; it post-

pones the necessary renewal of the service pipes and the attending expense to the Department of the cost of renewal in the street.

Year ending March 31, 1912	159
Year ending March 31, 1913	278
Year ending March 31, 1914	471
Year ending March 31, 1915	727
Year ending March 31, 1916	841
	2,476

We have been unable to set, as intended, the detector meters on the fire services that have supplied free fire protection for so many years, but this season an additional effort will be made to accomplish this very necessary work.

Following is the list of manufactories, etc., which are supplied with pipes for fire protection. They are not metered, excepting where specified.

Alberti Box Co	Osborn Street	6-in.
Allen & Endicott Building Co	Osborn Street	6-in.
American Rubber Co	Binney Street	6-in.
American Rubber Co	Potter Street	6-in.
American Circular Loom Co	Clarendon Avenue	6-in.
American Circular Loom Co	Tanney Street (metered)	2-in.
American Linseed Co	Fifth Street	6-in.
American Net & Twine Co	Third Street	6-in.
American Net & Twine Co	Second Street	6-in.
Ashton Valve Co	First Street	6-in.
Associated Trust	888 Mass. Ave	2-in.
Barber Asphalt Paving Co	First Street	6-in.
Bell Confectionery Co., J. S	Sixth Street	6-in.
Blacker & Shepard Co	Osborn Street (Metered)	1½-in.
Blake & Knowles Steam Pump Works.	Binney Street	8-in.
Blake & Knowles Steam Pump Works.	Binney Street	6-in.
Blake & Knowles Steam Pump Works.	Third Street	4-in.
Blanchard Machine Co	State Street	6-in.
Bornstein, Simon	R. 29 Elm Street (meter in 300 Broadway)	2-in.
Boston Book Binding Co	Mt. Auburn Street	6-in.
Boston Book Binding Co	Mt. Auburn Street (metered)	4-in.
Boston Confectionery Co	Main Street	6-in.
Boston Confectionery Co	State Street	6-in.
Boston Elevated Railway Co	Bennett Street	4-in.
Boston Elevated Railway Co	Baldwin Street	4-in.
Boston Elevated Railway Co	Massachusetts Ave.	4-in.
Boston Elevated Railway Co	Mt. Auburn Street	4-in.
Boston Elevated Railway Co	Mt. Auburn Street	2-in.
Boston Elevated Railway Co	Murray Street	4-in.
Boston Elevated Railway Co	Murray Street	6-in.
Boston Elevated Railway Co	River Street	4-in.
Boston Elevated Railway Co	University Road	8-in.
Boston & Maine Railroad	Bridge Street	6-in.
Boston & Maine Railroad	East Street	6-in.

Boston & Maine Railroad	In Yard—Four Cambridge hydrants for Cambridge engines	
Burke, Thomas F.	881 Mass. Ave. (metered)	2-in.
Cambridge Electric Light Co.	Western Avenue	6-in.
Cambridge Factory Trust Co.	Windsor Street cor. Mass. Ave.	6-in.
Cambridge Gas Light Co.	Third Street	6-in.
Cambridge Gas Light Co.	Second Street	6-in.
Cambridge Mutual Fire Insurance Co.	Mass. Ave. (metered)	2-in.
Carter Ink Co.	First Street (metered)	4-in.
Carter Ink Co.	Athenaeum Street	6-in.
Climax Paper Box Co.	Cottage Park Ave.	4-in.
Close Co., George	Broadway	6-in.
Columbia Jewelry Co.	Camp Street	6-in.
Commonwealth Custom Laundry	348 Franklin Street (metered)	4-in.
Dodge Motor Vehicle Co.	Landsdowne Street	6-in.
Dover Stamping & Manufacturing Co.	Pleasant Street	6-in.
Dow, John C., Co.	220 Portland Street (metered)	2-in.
E. & R. Laundry Co.	Massachusetts Ave.	6-in.
Eliott Addressing Machine Co.	Ames Street	6-in.
Eustis, J. P., Manufacturing Co.	Ames Street	6-in.
Furbish, Fred B.	41 Church Street	4-in.
Ginn & Co.	First Street	6-in.
Ginn & Co.	Athenaeum Street	Two 6-in.
Goepper Brothers	Ninth Street (metered)	1½-in.
Gray, Peter & Sons	Third Street	6-in.
Harvard University	Austin Hall	6-in.
Harvard University	Harvard Union	4-in.
Harvard University	Jefferson Physical Laboratory	6-in.
Harvard University	Langdell Hall	4-in.
Harvard University	Memorial Hall (metered)	Two 4-in.
Harvard University	Observatory	6-in.
Harvard University	Semitic Museum	4-in.
Hasty Pudding Club	Holyoke Street	4-in.
Hews Co., A. H.	Richdale Avenue	Two 4-in
Holy Ghost Hospital for Incurables	Cambridge Street	3-in.
Houghton, Mifflin & Co.	River Street	6-in.
Irving & Casson	Cambridge Street	6-in.
Irving & Casson	Otis Street	6-in.
Irving & Casson	Otis Street	6-in.
Irving & Casson	Thorndike Street	Two 6-in.
Irving & Casson	Thorndike Street (metered)	2-in.
Ivers & Pond Piano Co.	Albany Street	4-in.
Ivers & Pond Piano Co.	Main Street	6-in.
Ladd & Barker	Landsdowne Street	6-in.
Lamb & Ritchie	Albany Street	6-in.
Lever Brothers, Ltd.—Boston	Harvard Street	8-in.
Lever Brothers, Ltd.—Boston	Broadway	6-in.
Lever Brothers, Ltd.—Boston	Broadway	8-in.
Little, Brown & Co.	Putnam Avenue	6-in.
Luke, E. H., Estate of	Main Street (metered)	2-in.
Main Street Trust	Amherst Street	6-in.
Main Street Trust	Amherst Street	6-in.
Masonic Temple	Massachusetts Avenue	4-in.
Mason & Hamlin Co.	Broadway	Two 6-in.
McLean, Isaac	Mt. Auburn Street (metered)	4-in.
McLean, Isaac	Massachusetts Avenue	4-in.
Metropolitan Storage Warehouse Co.	Massachusetts Avenue	6-in.
Middlesex Co., House of Correction	Second and Spring Streets	6-in.
Monk's Laundry	Norfolk Street	6-in.

National Biscuit Co	Franklin Street	4-in.
National Biscuit Co	Frankiln Street	6-in.
National Biscuit Co	Green Street	8-in.
National Casket Co	First Street	6-in.
North Packing & Provision Co	Windsor Street	6-in.
O'Brien, Rev. John	Seventh Street	4-in.
Page Box Co., George G	Hampshire Street	Two 6-in.
Payne, F. S., & Co	Richdale Avenue	6-in.
Peabody, Francis, Jr., et al	Claverly Hall	4-in.
Petterson, Oscar G	183 Main Street	4-in.
Pierce—Tr. of the Estate of Thomas	Broadway	6-in.
Pi Eta Club	Winthrop Square	2-in.
Poole Piano Co	Sidney Street	8-in.
Porter, Henry S	Kinnaird Street (metered)	4-in.
Porter, Henry S	Kinnaird Street	6-in.
Reardon & Sons Corporation, John	Waverly Street (metered)	4-in.
Revere Sugar Refinery	Water Street	6-in.
Reversible Collar Co.	Putnam Avenue	6-in.
Riverside Boiler Works	Harvard Street	4-in.
Ross, William F., Co	201 Bridge Street	6-in.
Russell, Estate of Joseph G	Albany and Pacific Streets	6-in.
Sawyer & Son, Howard M	Thorndike Street	4-in.
Sawyer & Son, Howard M	Spring Street	6-in.
Sawyer & Son, Howard M	Second Street	6-in.
Seelye Manufacturing Co	First Street	4-in.
Sherburne, Estate of Reuben	Third Street	6-in.
Simplex Electrical Co	Auburn Street	8-in.
Simplex Electrical Co	Franklin Street	6-in.
Simplex Electrical Co	Pilgrim Street	4-in.
Speare's Sons & Co., Alden	Binney Street	4-in.
Squire's, J. P., Co.	Gore Street	8-in.
Standard Oil Co	Potter Street	6-in.
Standard Turning Works	Main Street	4-in.
Swan, Daniel A	61 Broadway (metered)	2-in.
Thairwell, William	Tudor Street	4-in.
Thayer & Co., Henry	Broadway	6-in.
Thompson Box Co	Hampshire Street	6-in.
Thompson Box Co	Hampshire Street	4-in.
Thorndike School	Spring Street	4-in.
Tower & Son, Sylvester	Broadway	4-in.
University Associates	Bow Street, Garage	6-in.
University Associates	Linden Street	4-in.
University Associates	Massachusetts Avenue	6-in.
University Associates	Massachusetts Avenue	4-in.
Ward Baking Co	Albany Street	6-in.
Ward Baking Co	Albany Street	4-in.
Warren Brothers & Co	Potter Street	6-in.
Whittemore Brothers & Co	Albany Street	4-in.
Youngman, William S	Amherst Street	6-in.

NEW SUPPLIES LAID DURING YEAR

	8 inch	6 Inch	4 Inch	3 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	Total
Length, in feet, of cast-iron pipe	27½	261	94½	.....	.....	.....	.....	.....	.....	383
Length, in feet, of galvanized pipe	.....	.....	18½	3½	.....	.....	.....	.....	.....	22
Length, in feet, of lead-lined pipe	.....	.....	.....	.....	551	130½	220	1551	3251½	5704
Total length, in feet	27½	261	113	3½	551	130½	220	1551	3251½	6109
Number of supplies, cast-iron	2	5	5	.....	.....	.....	.....	.....	.....	12
Number of supplies, lead lined	.....	.....	.....	.....	13	4	7	53	86	163
Total number of supplies	2	5	5	.....	13	4	7	53	86	175
Number of stop and waste valves	.....	.....	3	.....	8	10	6	53	82	162
Number of screw cocks	.....	.....	.....	.....	11	3	9	52	83	158
Number of service boxes	.....	.....	.....	.....	.....	.....	.....	.....	.....	139
Number of sidewalk cocks	.....	.....	.....	.....	.....	.....	6	53	82	141
Number of gates	2	4	5	.....	.....	.....	.....	.....	.....	11
Number of gate boxes (large supplies)	.....	.....	.....	.....	.....	.....	.....	.....	.....	11
Number of gate boxes (small supplies)	.....	.....	.....	.....	.....	.....	.....	.....	.....	17

SUPPLIES, ETC., RENEWED DURING YEAR

	4 Inch	3 inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	Total
Length in feet, of cast-iron pipe	106	.....	.....	.....	.....	.....	.....	106
Length, in feet, of lead-lined pipe	.....	56	372	192	536	4181	12803	18140
Length, in feet, of galvanized pipe	9	.....	24	.....	.....	14	.....	47
Total length, in feet	115	56	296	192	536	4195	12803	18293
Number of supplies renewed, galvanized	2	.....	.....	.....	.....	.....	.....	2
Number of supplies renewed, lead-lined	.....	1	8	7	19	120	458	613
Total number of supplies renewed	2	1	8	7	19	120	458	615
Number of screw cocks	.....	.....	3	3	8	42	28	84
Number of sidewalk cocks	.....	.....	.....	.....	5	43	33	81
Number of stop and waste valves	.....	2	5	6	9	54	185	261
Number of service boxes	.....	.....	.....	.....	.....	.....	.....	24
Number of gate boxes	.....	.....	.....	.....	.....	.....	.....	33
Number of small wooden boxes	.....	.....	.....	.....	.....	.....	.....	10

SUPPLIES LAID DURING PAST FOURTEEN YEARS.

YEAR	New Supplies	SUPPLIES RENEWED			Total Supplies Laid	Supplies furnished with sidewalk service boxes
		Application and Leakage	Attending Main Pipe Renewal	Total Supplies Renewed		
1902	161	110	167	277	438	51
1903	123	174	163	337	460	42
1904	111	190	87	277	388	39
1905	130	176	117	293	423	177
1906	129	230	15	245	374	113
1907	135	197	18	215	350	19
*1908	110	267	24	291	401	116
†1909	29	28	....	28	57	12
‡1910	156	332	56	388	544	144
‡1911	184	352	79	431	615	131
‡1912	229	403	37	440	669	202
‡1913	289	485	56	541	830	55
‡1914	201	663	29	692	893	81
‡1915	154	437	149	586	740	83
‡1916	175	615	122	737	912	24

* For year ending November 30, 1908.

† For four months ending March 31, 1909.

‡ For year ending March 31.

COMPARATIVE TRENCHING FOR THE PAST ELEVEN YEARS.

	MAIN PIPE				SUPPLIES		TOTAL	
	Extension	Renewals	Subway Changes		New	Renewal	Feet	Miles
			New	Renewals				
1906	7,443	1,357	.....	.....	4,835	8,716	22,351	4.23
1907	4,377	1,964	.....	.....	5,433	6,461	18,235	3.45
1908	2,877	918	.....	.....	5,730	8,361	17,886	3.38
1909	3,068½	918	.....	.....	6,674½	9,312½	19,973½	3.80
1910	5,361½	2,952	777	6,071	6,090	11,548	32,799½	6.21
1911	4,092	519	2,616	4,060	6,541½	13,032	30,860½	5.84
1912	5,813	2,424	2,033	3,995	9,476	13,403	37,144	7.03
1913	16,459	6,284	50	355	11,988½	16,325	51,461½	9.74
1914	11,000	4,154	.....	.....	8,175½	19,882½	43,212	8.18
1915	7,273½	6,290½	.....	.....	6,894½	17,804½	38,263	7.24
1916	5,368	5,360	.....	.....	6,109	18,293	35,130	6.65

Fiscal year ends March 31.

FOUNTAINS

There are twenty-seven (27) fountains in use in the city.

One (1) ice water drinking fountain was set in Putnam Square this year, thus making the total number of ice water drinking fountains—eight (8).

The following drinking fountains, equipped with faucets only, are in use for the watering of horses by pails. This provision is in response to a request from the Commissioner of the Board of Animal Industry to further his efforts in suppressing "Glanders".

Brattle Square.
Broadway at Norfolk Street.
Craigie Square.
Kelley Square.
Kendall Square.
Massachusetts Avenue at Porter Square.
Massachusetts Avenue at Washburne Avenue.
Mt. Auburn Street opposite Coolidge Avenue.
Norton Square.
Putnam Square.
Wyeth Square.

Three (3) drinking fountains have been added during the year.

The following drinking fountains are in use:

Fresh Pond Driveway (2).
McNamee Square.
Charles River Road at Riverbank Court.
Western Avenue.
Mt. Auburn Street (in park).
Lake Street at Niagara Street.
Porter Road.

It was our intention to set an ice water drinking fountain in Concord Avenue near Huron Avenue and we commenced the work but there was so much opposition to the location that a new site will be selected.

ICE WATER DRINKING FOUNTAINS.

The Cost of Furnishing Fountains with Ice during the Summer Months for the Past Twelve Years.

Year	LOCATION								COST	
	Cambridge Field	Cambridge Street at Third Street	Central Square	Harvard Square	Mass. Ave. at Blake St.	Mass. Ave. at Cameron St.	Putnam Square	Rindge Field	Total Cost per Year	Average Cost per Day per Fountain
1904.	.....	$145.50	$112.50	$105.60	$96.75	.....	.....	.....	$460.35	$1.20
1905.	.....	125.55	129.90	103.43	155.30	.....	.....	.....	514.18	.94
*1906.	.....	180.95	175.35	166.69	157.25	$115.40	.....	.....	795.64	1.57
1907.	$102.37	110.50	127.13	110.50	102.74	102.25	.. ..	.....	655.49	1.09
1908.	89.49	127.00	134.38	127.87	111.50	115.75	.....	.....	705.99	1.04
1909.	121.05	185.68	124.50	122.70	141.60	127.95	.....	.....	823.48	1.15
1910.	134.10	149.70	.....	134.55	140.25	154.05	.....	.....	712.65	1.24
1911.	123.60	167.65	.....	127.20	146.70	169.05	.....	.....	734.20	1.34
1912.	120.30	134.85	108.15	120.75	139.95	165.00	.....	$129.75	918.75	1.25
§1913.	135.82	174.19	175.22	138.02	119.22	116.33	.....	112.01	970.81	.97
†1914.	113.77	149.57	152.88	113.78	64.82	74.45	.....	78.41	747.68	.78
†1915.	89.67	120.41	109.80	83.49	77.09	84.44	65.85	89.08	719.83	.74

* Prices in 1906 were twenty-five (25) cents and forty (40) cents per one hundred pounds; in other years, twelve and one-half (12½) cents and fifteen (15) cents per one hundred pounds.

§ Again, in 1913, the price of ice was twenty-five (25) cents per one hundred pounds

†A very cool summer.

STREET WATERING STANDPIPES

There has been no addition made to the number of street watering standpipes during the year although one has been put into working order at Brattle Square corner Brattle Street.

At Lexington Avenue and Huron Avenue and at Putnam Avenue and Magee Street the street watering standpipes have been relocated.

The standpipes on Coolidge Avenue, Mt. Auburn Street, at DeWolfe Street and on Concord Avenue at the Water Works barn have been removed.

All the standpipes have been overhauled and repaired, the expenses of repairs as usual, being charged to the Street Department.

GATES

The gates in all sections of the city have been examined and carefully tested.

The investigation made by the representative of the "National Board of Underwriters" for Fire Protection revealed that the department had no complete record of gates, etc.

When the works were built many years ago there were no measurements and frequently no locations of pipes and gates noted on the simple plans that were made at that time.

As the years pass and the renewals of mains have been made these omissions have been corrected so that we can easily make a card index from the information that we have on record, on the plans, etc. We find upon inquiring of other cities that their records are about the same as that of Cambridge. But a card index is to be commenced at once.

During the year we have set 48 gates in connection with renewals and extensions of main pipe—11 on new supplies and three in places of old gates removed, making a total of 62 gates.

BOXES

During the year we have placed the following number of boxes on meters, gates, blow-offs, etc:

36 iron boxes—replacing old—removed.
45 iron boxes—on main pipe gates.
28 iron boxes—on supplies.
12 small wooden boxes—replacing old—removed.
2 small wooden boxes—on supplies.
1 meter box.
21 concrete meter boxes.
4 brick meter boxes.
5 wooden boxes with meters.

HYDRANTS

The hydrants this year have been given a most thorough inspection and testing.

Outside of the usual removal of defective hydrants and the installation of new ones in their places, twenty-five (25) hydrants have been repaired.

During the coming year it will be necessary to set a number of hydrants in response to the request of the Chief of the Fire Department, who considers the districts in question inadequately protected.

This work will be taken up at once.

The hydrants at date are divided as follows:

Boston	137
Chapman	615
Coffin	39
Corey	33
Flush	7
Holyoke	164
Kennedy	87
Perkins	88
	1,170

The account of the removals, etc., etc, will be found in the table following:

HYDRANTS

	Removed	Installed
Allen Street, corner Orchard Street	.....	Chapman
Athens Street, 20 feet north from Athens Terrace	.....	Kennedy
Broadway, 7 feet southeast from Clark Street	Boston	Kennedy
Broadway, southeast corner of Pelham Street	Flush	Kennedy
Cambridge Street, 16 feet east from Leonard Avenue	Boston	Chapman
Cambridge Street (north side), 5 feet east from Seventh Street	Boston	Kennedy
Columbia Street, corner Austin Street	Flush	.....
Columbia Street, 6 feet southwest from Market Street (gate on branch)	Chapman	Kennedy
Concord Avenue, at Water Works barn	Boston	Chapman
Distillhouse Street (hydrant relocated) (gate on branch)	.....	.....
Douglass Street, at No. 5	Flush	.....
Ericsson Street, 99 feet from Thingvalla Avenue	.....	Chapman
Fairmont Street, 242 feet from Magazine Street	.....	Chapman
Green Street, at Blanche Street	.....	Chapman
Green Street, between Magazine and Pearl Streets	.....	Chapman
Grigg Street, 10 feet east from Dodge Street	.....	Kennedy
Howard Street, east side, 131 feet south from Kinnaird Street	Chapman	Chapman
Landsdowne Street, 7 feet west from Green Street	.....	Chapman
Line Street, at Boiler House (Hospital)	.....	Chapman
Main Street (Kendall Square)	Perkins	Kennedy
Massachusetts Avenue, east side, northeast corner Frank Street	Boston	Chapman
Massachusetts Avenue, between Bay and Hancock Streets	.....	Kennedy
Massachusetts Avenue, between Dana and Ellery Streets	.....	Kennedy
Munroe Street, south side, 68 feet east from Fifth Street	Coffin	Kennedy
Plymouth Street, 11 feet west from Berkshire Street	.....	Chapman
Porter Road (east), 14 feet south from Mass. Avenue	.....	Chapman
Porter Road (west), 22 feet south from Mass. Ave	.....	Chapman
Portland Street (east side), 123 feet south from Main Street	Coffin	Chapman
Spring Street	.....	Chapman
State Street, 151 feet west from Osborn Street	Boston	Chapman
Tremont Street (167), at Somerville Line	Chapman	Kennedy
Trowbridge Street (southeast side), 294 feet northeast from Harvard St.	Perkins	Chapman
Vernon Street, 4 feet northeast from Green Street	Boston	Chapman
Washburne Avenue (hydrant relocated)	.....	.....
Waterhouse Street, opposite Follen Street	Holyoke	Chapman

METERS.

The following tables will exhibit the number of meters set during the year—284 on dwellings and manufactories and 12 on fire supplies.

	3 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	⅝ Inch	Total
Crest	..	1	..	..	..	..	..	1
Hersey	..	4	1	..	5	5	11	26
Keystone	..	..	..	..	..	..	4	4
Nash	..	..	..	..	..	1	..	1
Torrent	..	1	..	..	..	..	..	1
Trident	..	..	..	..	3	7	25	35
Worthington	1	8	1	5	12	43	146	216
	1	14	2	5	20	56	186	284

	8 Inch	6 Inch	4 Inch	3 Inch	Total
Hersey "Dectectors"	1	4	2	3	10
Neptune "Protectus"	1	1	..	..	2
	2	5	2	3	12

Seven "Compulsory" meters were set during the year.

Five "Temporary" meters were set during construction.

Forty-six meters were frozen.

Meters from which the department receives income:

	6 Inch	4 Inch	3 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	⅝ Inch	Total
Crest	...	...	3	5	8	7	...	...	...	23
Crown	...	...	1	...	3	2	2	10	3	21
Empire	...	...	...	...	...	...	1	...	...	1
Hersey	1	1	3	42	17	...	115	266	690	1135
Keystone	...	...	...	...	...	...	35	114	336	485
Lambert	...	...	...	1	...	...	5	22	96	124
Nash	...	...	...	...	...	...	...	12	2	14
Thomson	...	...	...	...	1	...	...	4	1	6
Torrent	...	...	...	8	...	...	...	...	...	8
Trident	...	...	2	8	4	1	104	239	462	820
Union Rotary	...	8	5	9	7	...	...	7	5	41
Watch Dog	...	...	...	...	...	...	...	3	1	4
Worthington	1	3	15	67	70	57	147	574	2083	3017
	2	16	30	146	108	58	409	1251	3679	5699

Meters in use on public buildings, etc., set to determine amount of water furnished city free of charge.

	6 Inch	4 Inch	3 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	⅝ Inch	Total
Crown	...	...	...	1	1	...	2	1	1	6
Hersey	...	...	...	...	...	...	7	5	...	12
Keystone	...	...	...	...	...	...	...	1	...	1
Thomson	...	...	...	1	...	...	...	...	...	1
Torrent	...	...	...	2	...	...	...	...	...	2
Trident	...	...	...	...	...	...	2	6	3	11
Union Rotary	...	...	...	1	...	...	...	...	...	1
Worthington	1	2	1	4	7	2	6	2	2	27
	1	2	1	9	8	2	17	15	6	61

Meters on fire supplies.

	8 Inch	6 Inch	4 Inch	3 Inch	Total
Hersey "Dectectors"	2	26	8	3	39
Neptune "Protectus"	1	1	..	..	2
	3	27	8	3	41

DETECTOR METERS

Ten (10) "Detector" and two (2) "Protectus" meters have been set during the year. All but one of these were placed on new fire supplies.

We now have forty-one (41) meters on our fire supplies and they are located at follows:

Allen & Endicott Building Company, Main Street.....6 inch on new supply
Allen & Endicott Building Company, Osborn Street...6 inch on new supply
Berkshire Factory Trust, Ames Street.....6 inch on old supply
Blacker & Shepard, State Street (premises).....4 inch on new supply
Briggs, C. A., 430 Main Street.....6 inch on new supply
Browning, K. Baker, Osborn Street (premises).....6 inch on new supply
Boston Woven Hose & Rubber Co., Hampshire Street..6 inch on old supply
Boston Woven Hose & Rubber Co., Portland Street....6 inch on old supply
Cambridge Paper Box Company, Broadway.....6 inch on old supply
Car Factory Trust, Amherst Street (premises).....6 inch on new supply
Davis, F. H., 175 Richdale Avenue.....6 inch on new supply
Dyar Supply Company, Broadway.....4 inch on new supply
Ford Motor Company, Brookline Street (premises)....6 inch on new supply
Gray & Davis, Inc., Amesbury Street (premises).....8 inch on new supply
Hammett, J. L. Co., Main St. at Hayward St. (prem.).6 inch on new supply
Hathaway, C. F., & Sons, Richdale Avenue.....4 inch on new supply
Hathaway, C. F. & Sons, Richdale Avenue.....4 inch on old supply
Harvard University, Divinity Avenue (premises).....6 inch on new supply
Harvard University, Oxford Street (premises).....6 inch on new supply
Harvard University, Widener Library (premises).....3 inch on new supply
Hingham Knit Goods Company, Banks St. (premises).4 inch on new supply
Houghton, H. O. (Riverside Press), Blackstone Street..6 inch on old supply
Hyde, A. R. Company, Columbia Street (premises)....4 inch on new supply
Institute of Technology, Massachusetts Avenue.....8 inch on new supply
Institute of Technology, Vassar Street.....8 inch on new supply
McGoldrick, H. E., 339 Franklin Street.....3 inch on new supply
Murray & Emery, Wadsworth Street.....6 inch on new supply
New England Tel. & Tel. Co., 51 Inman Street.....3 inch on new supply
Page & Shaw, 18-20 Ames Street (premises).....6 inch on old supply
Penn Metal Company, Sidney Street (premises).....6 inch on new supply
Purity Distilling Co., Distillhouse Street (premises)..6 inch on new supply
Putney, Henry M., Windsor Street.....6 inch on new supply
Riverside Boiler Works, 493 Main Street (premises)..6 inch on new supply
Russell & Company, Norfolk Street.....6 inch on new supply
Squirrel Brand Nut Company, Boardman Street.....4 inch on new supply
Standard Oil Company, Sixth Street.....4 inch on old supply
Sterling Knit Goods Company, Stiles Street.....6 inch on old supply
University Press, Nutting Place.....6 inch on old supply
University Press, University Road.....6 inch on new supply
Ward Baking Company, Albany Street.....6 inch on old supply
Wheelock, Lovejoy Company, Sidney Street.....6 inch on new supply

TUNNELS

So soon as we can spare the men, it is my intention to give the pipe tunnels at Broad Canal a thorough examination and pump out any water that may have accumulated. I know of no reason why

they are not in sound condition but an early inspection will assist in confirming my belief.

CONDUITS

There were two leaks during the year in our Hobbs Brook-Stony Brook Conduits: One occurred in our 30-inch pipe at Waltham and one in the 63-inch at Watertown.

Outside of these leaks these conduits have given us no trouble.

STONY BROOK RESERVOIR

During this year the lowest elevation registered in this reservoir was on December 11, 1915 at 73.42.

The highest elevation of 82.16 was reached on March 31, 1916.

The rainfall for the year was 41.90 inches, an increase of 7.46 inches over last year's which was 34.44.

In connection with the department for sanitary protection there has been 626,650 gallons of sewage and 40 barrels of solids removed from the vaults and cesspools during the year.

In February and March we made our annual attack on the moth infected territory around this basin and cut out the brush, etc. We have not planted any more trees but those that were planted two years ago are growing well and in a thriving condition.

There have been no additions to the number of vaults and cesspools; there are 35 cesspools and 19 vaults.

STONY BROOK OVERFLOW

	Gallons	Number of Days	Rainfall
1915			
April	.....	.....	3.07
May	13,800,000	5	1.62
June	.....	.....	1.89
July	103,500,000	9	6.63
August	346,400,000	23	5.69
September	.....	.....	1.03
October	.....	.....	2.90
November	.....	.....	2.77
December	101,000,000	6	5.21
1916			
January	525,900,000	31	1.18
February	489,900,000	29	5.69
March	1,001,400,000	31	4.22
Total amount wasted	2,581,900,000		
Number of days in which water wasted		134	
Total rainfall			41.90

STONY BROOK OVERFLOW, ETC., FOR THE PAST TWENTY-NINE (29) YEARS

	Gallons	No. of Days	Rainfall
1888	6,000,000,000	.....	.....
1889	8,000,000,000	.....	.....
1890	8,700,000,000	.....	.....
1891	8,247,800,000	.....	45.25
1892	3,688,900,000	.....	39.82
1893	4,427,400,000	.....	39.50
1894	2,853,000,000	.....	35.79
1895	5,281,900,000	224	50.52
1896	5,704,700,000	224	50.52
1897	3,999,700,000	256	43.35
1898	5,704,600,000	260	54.03
1899	6,969,500,000	175	43.96
1900	4,447,100,000	145	51.34
1901	6,141,300,000	157	46.77
1902	6,539,100,000	182	44.58
1903	6,437,500,000	222	45.97
1904	5,726,399,000	171	41.18
1905	3,148,900,000	140	38.40
1906	3,510,700,000	170	39.16
1907	2,415,900,000	147	42.32
*1908	3,384,300,000	184	
†1909	960,800,000	50	48.23
‡1910	2,531,500,000	137	37.83
‡1911	57,200,000	22	31.78
‡1912	1,395,200,000	69	42.63
‡1913	2,571,200,000	132	41.22
‡1914	3,022,800,000	99	42.13
‡1915	3,477,200,000	111	34.44
‡1916	2,581,900,000	134	41.90

*Previous to 1908—Fiscal year ended November 30.
†Overflow from December 1, 1908, to March 31, 1909.
‡Fiscal year ended March 31.

HOBBS BROOK RESERVOIR

The highest elevation reached during the year in No. 1 basin, Lincoln Street, was on March 31, 1916—181.75.

The lowest elevation in No. 1 basin, Lincoln Street, was on November 14, 1915—180.40.

The highest elevation reached during the year in No. 2 basin, Winter Street, was on March 31, 1916—181.70.

The lowest elevation in No. 2 basin, Winter Street, was on April 1, 1915—176.75.

The rainfall, for the year was 45.32 inches and as the precipitation last year was 33.02 the increase this year over last was 12.30.

The gate in the Winter Street dam was closed at the beginning of the year and was not opened until June 22, 1915, when the elevation of the water at Stony Brook Reservoir was 73,54 or 7.46 feet below crest. The gate was opened and closed during the rest of the year as follows:

Closed	July 2, 1915.
Opened	September 28, 1915.
Closed	October 2, 1915.
Opened	October 22, 1915.
Closed	November 15, 1915.
Opened	December 10, 1915.
Closed	December 14, 1915.

At date, March 31, 1916, the gate is still closed with the water in both basins overflowing crest.

With the exception of the cost of constructing the fence, no unusual expense has been borne by the department during this year for these Reservations.

The standing grass around the basins has been sold as in past years.

The work on moth destruction was continued in January with satisfactory results.

HOBBS BROOK							STONY BROOK			
Lincoln Street, Basin No. 1			Rainfall by Month	Winter Street, Basin No. 2			Elevation of Crest—81			
	Lowest Elevation During Month	Highest Elevation During Month			Lowest Elevation During Month	Highest Elevation During Month		Lowest Elevation During Month	Highest Elevation During Month	Rainfall by Month
1915			Inches	**1915**			**1915**			Inches
April 10		180.60		April 1	176.75		April 6	78.17		
April 30	180.50		1.55	April 30		177.45	April 30		80.94	3.07
May 3		180.65		May 1	177.60		May 2		81.16	
May 31	180.50		3.13	May 31		178.00	May 31	78.07		1.62
June 1	180.50			June 1		178.00	June 1		77.90	
June 30		180.50	1.42	June 30	177.40		June 23	73.54		1.89
July 10		180.85		July 1	177.40		July 1	74.27		
July 31	180.50		10.37	July 31		179.25	July 10		81.50	6.63
Aug. 1	180.50			Aug. 1	179.30		Aug. 6		81.73	
Aug. 31		181.00	6.75	Aug. 31		181.00	Aug. 22	80.48		5.69
Sept. 1		181.00		Sept. 1		181.00	Sept. 1		80.90	
Sept. 30	180.80		.85	Sept. 30	180.65		Sept. 29	74.42		1.03
Oct. 1		180.80		Oct. 22		180.75	Oct. 22	73.83		
Oct. 31	180.50		3.05	Oct. 31	180.40		Oct. 28		75.14	2.90
Nov. 14	180.40			Nov 1		180.35	Nov. 8	74.04		
Nov. 25		180.55	2.60	Nov. 15	180.00		Nov. 25		76.12	2.77
Dec. 14	180.45			Dec. 13	180.15		Dec. 11	73.42		
Dec. 31		181.25	5.05	Dec. 31		181.20	Dec. 28		81.40	5.21
1916				**1916**			**1916**			
Jan. 1	181.25			Jan. 1	181.20		Jan. 17		81.50	
Jan. 31		181.35	1.52	Jan 31		181.35	Jan. 21	81.02		1.18
Feb. 25	181.25			Feb. 25	181.25		Feb. 20	81.08		
Feb. 27		181.60	5.00	Feb. 27		181.55	Feb. 27		82.08	5.69
Mar. 1	181.50			Mar. 1	181.50		Mar. 25	81.27		
Mar. 31		181.75	4.03	Mar. 31		181.70	Mar. 31		82.16	4.22
			45.32							41.90

In conclusion, I would like to call the attention of the Board to the recommendations of the National Board of Underwriters in its report on our City.

The leaking condition of our reservoir, does not permit us to give an accurate account of our "consumption," we can figure "pumpage" each year but our figures on consumption are too large. I fully agree with the Underwriters that a measuring devise be placed on the distributing main from Payson Park Reservoir which would give us a reliable basis whereby we could give more accurate figures.

The other suggestions for our plant are being considered and they will be carried out so soon as feasible.

I desire to place on record my appreciation of the long and faithful services of Mr. Bradbury P. Doe who had been in the employ of the City since 1887 and who passed away May 9, 1915.

Respectfully submitted,

EDWARD W. QUINN,
General Supt. Cambridge Water Works.

SUMMARY OF STATISTICS

In form recommended by the New England Water Association.

CAMBRIDGE WATER WORKS

Cambridge, Middlesex County, Massachusetts.

GENERAL STATISTICS

Population by census 1910—104,839.

Estimated population March 31, 1916—114,000.

"Cambridge Water Works Corporation" was chartered in 1852 and organized in 1853.

The works were constructed in 1855,—Mr. John Blake, consulting engineer,—and came into possession of the city by purchase in 1865, when they were called "Cambridge Water Works."

The original source of supply was Fresh Pond in Cambridge and Belmont, which was enlarged by connection via conduit with Wellington Brook and Spy Pond, Arlington. The waters of these additional sources were adjudged unfit for domestic use in 1889 and since that time have not been utilized for a supply in Cambridge.

In 1887, Fresh Pond was augmented by a storage reservoir which had been constructed on Stony Brook, located in Weston and Waltham.

The waters from this brook are brought to Fresh Pond by a conduit, originally a thirty-inch cast iron pipe, which was laid through Waltham and Watertown to Fresh Pond Reservoir.

This extension of the works was made under the direction of Mr. N. Henry Crafts, as consulting engineer, and our city engineer, Mr. W. S. Barbour.

The population of the city was about 60,000 in 1887.

In 1897, an additional provision was made for storing water by the construction of two large reservoirs artificially formed by constructing two dams across Hobbs Brook which is a tributary of Stony Brook and flows through Lexington and Lincoln.

Consulting engineers, Mr. A. Fteley and Messrs. Rice and Evans, and our City Engineer, Mr. L. M. Hastings, directed the construction of these reservoirs.

The population was about 87,500 in 1897.

In 1905 and 1906, two sections of the Stony Brook pipe line were rebuilt; the new conduit was made of concrete, sixty-three inches in diameter. Another part was rebuilt in 1908, when a new thirty-inch main of cast iron was laid to replace 1,500 feet of the old thirty-inch line.

The consulting engineer for the concrete conduit was Mr. Freeman C. Coffin, assisted by our City Engineer, Mr. L. M. Hastings.

The new thirty-inch main was laid under the supervision of the Water Works Superintendent, Mr. E. C. Brooks.

The conduit is constructed as follows:

From Fresh Pond to River Street, Waltham:

27,405 feet of 63-inch concrete.

From River Street to Stony Brook Dam:

1,500 feet of 30-inch (new).
6,023 feet of 30-inch (old).
4,826 feet of 36-inch (old).

Mode of supply: Gravity from Hobbs Brook and Stony Brook storage reservoirs to Fresh Pond receiving reservoir; pumping from Fresh Pond receiving reservoir to Payson Park distributing reservoir, through the 40-inch steel pumping main; thence, by gravity, to consumers through the 40-inch steel distributing main. The Leavitt engine, of 20,000,000 gallons capacity is connected with this steel main.

In case of necessity the water can be pumped direct from the pumping station through the 30-inch and 24-inch cast iron pumping mains into the 40-inch steel distributing main. The Worthington engines are used in connection with these mains and are held in reserve for any possible emergency.

PUMPING STATISTICS

1. Builders of pumping machinery:
   One Leavitt engine: of 20,000,000 gallons capacity per 24 hours, built by Goshen High Duty Pumping Engine Company.
   Two Worthington Compound Duplex engines, of 5,000,000 gallons capacity each per 24 hours.
   Total capacity, 30,000,000 gallons per 24 hours.

2. Description of fuel:
   Kind—bituminous.
   Brand of coal—"Ralphton" (Quemahoning) "Colver", etc.
   Price of coal—$4.18 to $4.85 delivered at Pumping Station, Fresh Pond
3. Coal consumed during year—5,797,224 pounds.
4. Pounds of wood consumed divided by 3 equals equivalent of amount of coal—500 pounds.
5. Total equivalent of coal consumed for the year for pumping purposes 5,797,724 pounds.
   Daily average coal consumed—15,839 pounds.
   Coal per million gallons pumped—1,700 pounds.
6. Total pumpage for the year, without allowance for slip, 3,409,230,800 gallons.
7. Average static head against which the pump works—157.21.
8. Average dynamic head against which the pump works—189.35.
9. Number of gallons pumped per pound equivalent coal—588 gallons.
10. Duty—not figured as Leavitt Engine was stopped for repairs in November and since then has not been continuously in use.
    Cost of pumping figured on pumping station expenses, viz, $32,149.27 (this amount does not include cost of coal shed, track, trestle, scales, etc.)

§11. Per million gallons pumped—$9.43.

12. Per million gallons raised one foot (dynamic) $.04$^{9}/_{10}$.

§This increase over last year's figures was caused by the extensive repairs made on our Leavitt pumping engine, the expense of coal running two Worthington pumping engines during the repairs and the attending labor, as well as labor handling coal.

FINANCIAL STATISTICS

For the year ending March 31, 1916.

Maintenance	Total expenses	Operating expenses
Pumping, coal shed completion	$2,850 10	
" side track and bunter	972 46	
" trestle	970 00	
" scales	1,511 84	
" generator and receiver	832 70	
	$7,137 10	

OPERATING EXPENSES

Pumping general expenses	18,320 30	$18,320 30
" salaries, labor etc	13,828 97	13,828 97
" total	$39,286 37	
General expenses	$71,760 33	$71,760 33
" supplies	4,476 31	
Fresh Pond Reservoir	11,336 43	11,336 43
Payson Park Reservoir	1,206 17	1,206 17
Stony Brook Reservoir	3,756 81	3,756 81
Hobbs Brook Reservoir	2,248 75	2,248 75
Salaries	22,790 38	22 790 38
Ice for fountains	719 83	719 83
City Treasurer and City Solicitor	3,000 00	3,000 00
	$160,581 38	$148,967 97
Interest on bonds	$103,197 75	$103,197 75
Sinking Fund	87,255 00	87,255 00
Serial bonds paid	20,500 00	20,500 00
Refunds and Abatements	6,380 43	6,380 43
	$377,914 56	$366,301 15

Construction:

General expenses	$31,052 44	
Hobbs Brook Conduit	5,662 64	
Meters (Detector)	2,383 75	$39,098 83

There is no charge made to city for water for any purpose.

Net receipts from water rates, etc.

Water rates	$396,619 53	
Miscellaneous	14,974 59	
Construction	2,536 89	
		$414,131 01
Construction, Detector Meter		$3,833 40
Cost of works to date		$6,700,282 29
Bonded debt at date (net)		819,914 53
Value of sinking fund at date		1,681,685 47

Average rate of interest—3½ to 4%.

STATISTICS OF CONSUMPTION OF WATER

For the year extending from April 1, 1915 to March 31, 1916.

Total population—census, 1910, 104,839.

Estimated population supplied on lines of pipe—114,000.

Total pumpage for the year—3,409,230,800 gallons.

Average daily pumpage—9,314,838 gallons.

Total (estimated) consumption for the year 3,175,230,800 gallons.

Average daily consumption—estimated 8,675,494 gallons.

Gallons per day to each inhabitant (pumpage) 81.70 gallons.

Gallons per day to each inhabitant (consumption) 76.10 gallons.

Gallons per day to each tap (pumpage) 557 gallons.

Gallons per day to each tap (consumption) 518 gallons.

Total cost of supplying water per million gallons pumped figured on "Total Maintenance" ($377,914.56)—$110.85.

Cost of supplying water per million gallons pumped, figured on "Operating Expenses," ($148,967.97)—$41.93.

Total cost of supplying water per million gallons pumped figured on "Operating expenses, interest, sinking fund, serial bonds, etc.," ($366,301.15)—$107.45.

STATISTICS RELATING TO DISTRIBUTING SYSTEM

For the year extending from April 1, 1915 to March 31, 1916.

MAIN PIPE

Kind of pipe—mains are of cast iron—pumping main to and distributing main from Payson Park Reservoir of steel (40-inch).

Sizes—2-inch to 40-inch.

Extended during year—5368 feet.

Renewed during year—5360 feet.

Total now in use:

4-inch	85,103	feet
6-inch	348,827	"
8-inch	77,729	"
10-inch	33,724	"
12-inch	79,959	"
16-inch	9,292	"

20-inch	28 353	"
24-inch	13,255	"
30-inch	1,357	"
	677,599	" or
	128.33	miles

40-inch steel main—23,316 feet or 4.41 miles.

Number of leaks per mile for the year—1.40.
Length of pipe 2-inch and 3-inch in diameter—2.05 miles.
Number of hydrants added during year (public)—12.
Total number of hydrants now in use—1170.
Number of stop gates added during year—48.
Range of pressure on mains—55 to 60 pounds.

SERVICES

Kind of pipe—galvanized iron, cast iron, tin lined, lead lined.
Sizes—three-fourths inch to eight-inch.
Extended during the year—6,109 feet.
Number of services added during year—175.

¾-inch	86
1-inch	53
1¼-inch	7
1½-inch	4
2-inch	13
4-inch	5
6-inch	5
8-inch	2
Total	175

Number now in use—16,724.

Average length of service for past year—34 9/10 feet.

Average cost of services for the year (lead lined):

Average cost for ¾-inch supplies	$24.84
" " " 1-inch "	25.87
" " " 1¼-inch "	29.49
" " " 1½-inch "	30.82
" " " 2-inch "	58.85

Average cost for year—$28.51.
Number of meters added during the year—284.
Number now in use—5801.
Percentage of services metered—34 7/10.

Respectfully submitted,

EDWARD W. QUINN,
General Superintendent.

PUMPING STATION, CAMBRIDGE, MASSACHUSETTS

April 1, 1916.

Mr. Edward W. Quinn, General Superintendent, Cambridge Water Works, Cambridge, Mass.

Dear Sir: I report that the machinery at the Pumping Station has undergone extensive repairs during the past year, the most important of which are as follows:

On November 8, 1915, the Leavitt engine was shut down for general overhauling and repairs.

The vertical valve gear shaft was taken down and the two valve driving mortise bevel gears were disconnected from it,—a full set of young well seasoned hickory teeth were fitted to these gears and machine cut.

The split cast iron collar, which supported the bottom mortise bevel gear and which is also fitted with stops to prevent the valve gear from being thrown out of gear, was found to be worn beyond repairs; this collar got out of order shortly after the engine was first started. It has always been a source of trouble and being made of cast iron it was not able to stand the load it had to carry and at any time was liable to be the cause of shutting down the engine for several days. A new steel collar was made to take its place and there should be no further trouble at this point.

New keys were fitted to the clutch on lower mortise bevel valve driving gear.

A new key was fitted to upper mortise bevel gear.

The cast iron bevel valve driving gears on the lay shaft and on the valve shaft were very much worn on one side, while the opposite side was as good as new; this was due to the variation in the load

the gears have to carry. These gears were turned around on their shafts, new key ways were cut on them and they are now as good as new.

The above mentioned repairs and alterations have eliminated the knock and noise that have always been so noticeable on this part of the engine.

There has always been another very annoying knock on this engine which appeared to be somewhere in the low pressure side, just what caused it was never known and it was considered to be due to some peculiar feature of the engine that could not be remedied. An inspection of the valves of the low pressure cylinder revealed the cause of the trouble to be that one of these valves was out of order, this was rectified and the knock at that point has disappeared.

The system of piping and of pressures used on the jackets of the Leavitt engine have been changed so as to conform with what has been found in modern practice to be most efficient. The efficiency of the engine has been increased considerably by this change. What is even more important, the pressure in the jacket of the intermediate pressure cylinder has been reduced from 189 pounds to 45 pounds, or one-fourth of what it was formerly.

This reduction in the pressure made it possible to stop the leakage that has always been around the core plugs on this cylinder.

There are twenty-four of these plugs, five inches in diameter, screwed in with pipe thread and every one of them have leaked. Caulking was the only method ever used to make them tight and some of them had to be caulked once a week, this would lessen the leakage temporarily but never made them tight.

These plugs had been leaking since the engine was installed, undoubtedly, and, as the threads on them were being continually weakened by the action of this leakage, they would eventually be the cause of a serious accident if something had not been done to rectify this trouble.

It was practically impossible to make them tight with 180 pounds pressure on them but when the pressure was reduced to 45 pounds they were made perfectly tight by being fitted with caps bolted to the cylinder.

This cylinder as it is at present operated is perfectly safe and will give no further trouble. This leakage combined with the heat from the cylinders destroyed the black walnut lagging with which

the high and intermediate pressure cylinders and other parts of the engine were originally covered and this detracted very much from the appearance of the engine.

These cylinders have been covered with magnesia and a lagging of planished iron has been fitted to them. The other parts of the lagging that had been in bad condition have been repaired with black walnut and when this part of the engine is painted it will look as good as new.

The crack on the lower pump chamber of the Leavitt engine, which I reported last year, has been further reinforced by steel lugs bolted to the cylinder and connected by shrunk links. This was a very difficult repair to make but it is a first class job in every respect.

The engine was started January 19, 1916, and continued to run satisfactorily until February 10, 1916, when a crack was discovered on the separator on the steam main to Leavitt engine. This separator was originally made of cast iron and of special and complicated design. Cast iron is not suitable for the high pressure and other conditions to which this separator is subjected and besides cast iron is forbidden by the Massachusetts Board of Boiler Rules for similar use on boilers.

A new separator is being made of homogeneous steel forgings and steel boiler plate which is the best construction possible.

While waiting for this separator to be made, new valve stems have been fitted to the stems and exhaust valves on high pressure cylinder and several other minor repairs have been made. This work is nearing completion at date of this report.

We expect a marked improvement in the smoothness of operation of this engine compared with what it has been.

By rectifying the causes of the knocks which have always been so noticeable on this engine the vibration of the fly wheel has been considerably reduced.

The cost of operating the Pumping Station this year while showing a marked increase over previous years has been kept down to a minimum for the amount of work that has been done. The cost has been very much reduced by having all the work done by the engineers and assistants regularly employed at the Station, except the reinforcing of the pump cylinder, the repairs on jacket plugs and some new part that required special machinery in their manufacture.

Mr. Fitzgerald, the Assistant Engineer, who was appointed in August 16, 1915, so that the hours of labor at the station would con-

form with the State Labor Laws, is a valuable man for the department and has aided materially in the extensive repairs made this year.

All the employees of the Station have worked loyally for the best interests of the Department, especially during the long period that the Worthington engines had to be operated when the Leavitt engine was undergoing repairs and they had to work a great amount of overtime.

The expense this year for repairs is only what should be expected when it is considered that this engine has now given in actual length of service the ordinary life of an engine without any repairs or renewals of any importance until this year. While this engine is now in first class condition it must be expected that together with its auxiliaries the cost of their maintenance in the future will be more than it has been in the past.

The two-inch galvanized iron water supply pipe in the Station has been replaced by a lead lined pipe.

The dynamo which had been used to light the Station the latter part of the night and which had outlived its usefulness has been replaced by a 3 K. W. General Electric Dynamo.

The two Belpaire boilers are eighteen years old. After eighteen years of service these boilers, on account of the peculiar design and complicated construction, are liable to give trouble and because of their age and of the defects which have developed in them recently, I recommended to you on March 2, 1916, that a new boiler be installed as soon as possible.

A contract will be made for a complete installation of a new boiler ready for service, of 335 H. P., capacity, good for working pressure of 200 pounds.

The foot valve and suction pipe of No. 1 Worthington engine has been repaired and defective parts replaced.

The Worthington engines pumped all the water used by the City from November 8, 1915, to January 19, 1916.

They were started again February 11, 1916, and were running at date of this report.

The suction pipe on air pump of No. 2 Worthington engine has been renewed.

Five metal lockers have been provided for the employees to replace the old wooden ones that were a source of danger from fire.

The new coal shed and trestle which have been in use about a

year have been found very suitable for the purpose for which they were intended and the outside of the building being in conformity with the main building has added much to the appearance and completeness of the whole structure.

The alterations that have been made on the track entering the coal shed have eliminated the difficulty and danger that was attached to shifting the heavy modern railroad cars over the old track.

The new railroad scale that has been in operation about a year has proven its worth by checking the weight of coal as received.

Michael J. Crowley, an employee at the Station for seventeen years, died September 16, 1915.

Respectfully submitted,

PATRICK J. BARRY,
Chief Engineer.

REPORT OF THE AGENT OF THE COMMITTEE ON SOLDIERS' AID.

To the Honorable, the City Council of the City of Cambridge.

Gentlemen: I submit herewith a report of the Agent of the Committee on Soldiers' Aid for the year April 1, 1918, to March 31, 1916:

Number of beneficiaries on Soldiers' Relief payroll March 31, 1915	186	
Number of beneficiaries added during the year	38	
		224
Died during the year	17	
Discontinued	15	
		32
Total number on Soldiers' Relief payroll March 31, 1916		192
Number of beneficiaries on Military Aid payroll March 31, 1915.	4	
Number of beneficiaries added during the year	1	
		5
Discontinued		1
Total number on Military Aid payroll March 31, 1916		4
Number of beneficiaries on State Aid payroll March 31, 1915	180	
Number of beneficiaries added during the year	21	
		201
Died during the year	14	
Discontinued	20	
		34
Total number on State Aid payroll March 31, 1916		167
Amount appropriated for the year April 1, 1915, to March 31, 1916		$33,000 00

EXPENDITURES

State Aid payroll	$12,040 00
Military Aid payroll	703 00
Soldiers' Relief payroll	17,791 00
Soldiers' Relief paid by other cities	92 00
Salary of Clerk and Agent	700 00
Pensioned Clerk and Agent	350 00
Burials	700 00
Office expenditures	102 79
Physicians, ambulance hire and transportation to Soldiers' Home	51 42

Hospital charges	304 78	
Groceries, fuel and clothing	143 47	
Grave bought at Cambridge Cemetery	20 00	
		32,998 46
Relinquished to the Treasury		$1 54

Respectfully submitted,

EDWARD F. SULLIVAN,
Agent.

To the Honorable the City Council of the City of Cambridge.

Gentlemen: I submit herewith the report, for the care of Soldiers' Graves as provided by the Acts of the year 1914, Chapter 122:

Amount transferred from Reserve Fund for the purpose		$207 70
Amount expended for loam	$14 00	
Amount expended for tools	2 20	
Amount expended for labor	191 50	
		207 70

This amount was expended to care for the graves of the veterans located at the Cemetery on Rindge Avenue in which are located one hundred graves of veterans of the War of the Rebellion and the War with Spain.

Respectfully submitted,

EDWARD F. SULLIVAN,

REPORT OF THE CITY ENGINEER.

April 1, 1916.

To the Honorable, the City Council:

The City Engineer hereby submits his annual report, being the forty-ninth of the department, showing the operation and expenditures of the Engineering and Sewer Departments for the year ending April 1, 1916.

A brief summary of the work of the Engineering and Sewer Department for the year is as follows:

FOR HIGHWAY DEPARTMENT

Number of surveys made	8
Number of street lines given	39
Number of grades given	60
Number of streets on which paving, curb, etc., was measured	68
Number of assessments prepared	81
Number of plans and profiles prepared	30
Number of cars of street department material measured	30

FOR SEWER DEPARTMENT

Number of surveys made	1
Number of lines given	169
Number of grades given	215
Number of sewers measured	23
Number of assessments prepared	76
Number of sewers assessed	21
Number of plans or profiles prepared	14

FOR WATER WORKS DEPARTMENT

Number of lines	4
Number of surveys	33
Number of plans and profiles made	22
Number of grades	14

FOR LAW DEPARTMENT

Number of surveys	39
Number of plans (not filed)	2
Number of photographic negatives	38

MISCELLANEOUS WORK

Number of houses measured	391
Number of plans or profiles prepared, tracings, etc.	348
Number of surveys made	7
Number of lines given	58

FOR PARK DEPARTMENT

Number of surveys	4
Number of lines given	14
Number of grades given	24
Number of plans made	4

There are now on file in the office 12,690 plans.

FINANCIAL

ENGINEERING DEPARTMENT

Salaries

Appropriation	$8,827 35
Expended	8,827 35
Balance	

Other Expenses

Appropriation	$522 65
Expended	512 56
Balance	$10 09

The entire amount expended for City Engineering Salaries, including the amounts charged to other departments, is as follows:

To Assessors' plans	$200 00
To Sewer Department	1,761 50
To Water Works Department	236 65
To salary of City Engineer	3,000 00
Salaries of Assistants	5,827 35
Total	$11,025 50

Classificaton of Salares of Assistants

Accounts	$432 60
Assessors' plans—Surveys, measurements and work on block plans for Assessors' Department	507 40
Accidents—Surveys, plans and court attendance for Law Department	87 20
Bridges—Surveys, plans, examinations and estimates	9 20
Cemetery—Surveys and plans, setting out lots, etc., at Cambridge Cemetery	59 05
General surveys and levels—Surveys and work on section and city plans and bench levelling	111 28
Highways—Surveys, levels, plans, estimates, measurements and assessments for Highway Department; also lines and grades for private parties	1,339 69
Location plans for electric conduits, gas, water pipes, etc.	1,095 00
Miscellaneous—Unclassified work for committees and departments, vacations and sickness	760 78

Parks—Surveys, lines, grades, plans and estimates for Park Department	203 85
Sewers—Lines, grades, plans, estimates, accounts, measurements and assessments for Sewer Department	1,232 46
Sidewalks—Estimates, measurements, titles and assessments for Highway Department	160 00
Water Works—Surveys, lines, grades, plans and estimates for Water Works Department	913 49
Total	$5,827 35

BRIDGES

A recent examination of the various bridges in the City shows that no extensive repairs will be needed at the present time. The planking on the Commercial Avenue bridge is badly worn and should be renewed at once. Most of the other bridges will need some repairs.

PAVEMENT

The wooden block pavement on Massachusetts Avenue has been extended from near Vernon Street to Quincy Square, thus completing the paving with wood block of this section of Massachusetts Avenue from Lafayette Square to near Brattle Square—a total length of about 6800 feet, or about 1.3 miles.

PAVEMENT STATISTICS

Statistics of the pavement laid in their city to date are as follows:

KIND	MILES IN LENGTH			SQUARE YARDS		
	Laid in 1915	Removed in 1915	To date	Laid in 1915	Removed in 1915	To date
Granite Block	0.181	.....	11.831	2,047	.....	299,138*
Vitrified Brick	.....	.....	3.800	.....	.....	81,821
Wood Block	0.615	.....	2.946	10,834	.....	65,209**
Bitulithic	2.244	.....	9.029	39,327	.....	209,955†
Tar Macadam	1.034	0.615	8.837	17,562	10,834	149,271
Macadam	.....	3.278	68.117	.....	56,889	893,088
Totals	4.024		104.560			1,698,482

In addition to the above

Harvard Bridge — Wood Block.	0.185 miles	5,512 square yards.
Cambridge Bridge — Granite Block	0.161 miles	4,044 square yards.
Charles River Dam — Granite Block	0.106 miles	5,409 square yards.

NOTES.

*Includes 24,468 square yards between railroad tracks formerly reported as wood or bitulithic.

**11,050 square yards of granite between railroad tracks deducted—previously reported as wood.

†13,418 square yards of granite between railroad tracks deducted—previously reported as bitulithic.

Streets laid out and accepted during the year are shown upon the following table:

STREETS LAID OUT AND ACCEPTED APRIL 1, 1915 TO MARCH 31, 1916.

Street	LOCATION OF STREET		Length in feet	Width in feet	Date of Acceptance	PLAN Made by	Date
	From	To					
Akron St.	Banks St.	Charles River Road	230	40	July 3, 1915	W. A. Mason & Son	July, 1914
Hingham St.	Banks St.	Charles River Road	205	40	July 3, 1915	Barbour & Hodges	Aug. 24, 1875
Lawn St.	Oxford Ave.	Cushing St.	1003	40&30	Oct. 29, 1915	City Engineer	Feb. 6, 1915
Museum St.	Carver St.	Gorham St.	687	40	Nov. 15, 1915	W. A. Mason & Son	July 28, 1901
Vassar St.	Dauforth St.	Fowler St.	1115	50	Dec. 31, 1915	City Engineer	Dec. 6, 1915

Length of Accepted Streets, March 31, 1915 ..... 105.21 miles
Length Accepted April 1, 1915 to March 31, 1916 ..... .614 "

Length Accepted streets to March 31, 1916 ..... 105.824 "
Unaccepted Streets ..... 18.906 "

Total mileage Streets and Ways ..... 124.73 "

Sands St. name changed to Hingham St.
Washburn Ave. widened on easterly side 130 feet.
Putnam Ave. widened at Green St.

GENERAL SEWER CONSTRUCTION

The total length of sewer conduit constructed during the year was 2.174 miles, making the total mileage in the city 156.826 miles.

The length of streets newly sewered during the year has been 0.592 miles, making the total mileage of streets sewered with one or more conduits 120.64 miles.

The total cost of sewer construction to date, including $240.26 paid by the Street Department and $140.46 paid by the Park Department for catch basins constructed, has been $2,427,324.89.

Sewers have been built upon streets as shown by the annexed schedule.

CATCH BASINS

Catch basins with wooden covers	247
Catch basins with sidewalk flagging	1,025
Catch basins with cast iron "D" frames	806
Catch basins with miscellaneous covers	51
Total number in city	2,129

Twenty-seven catch basins (including ten catch basins built on Concord Avenue and paid for by the Mass. Highway Commission), have been built during the year at a total cost to the city of $1,064.80. Of this amount $240.26 has been paid by the Street Department and $140.46 by the Park Department.

Fifty-seven catch basins have been repaired at a cost of $633.93, 3247 loads of material have been removed from 1128 catch basins during the year at a cost of $7309.71. For data as to cost of Catch Basin Cleaning 1905 to 1916, see annexed table. Nineteen persons have been licensed as drain layers during the year.

Permits have been granted for the construction of, or repairs to, private drains, as follows:

For repairs	74
For connection to combined sewers	119
For connection to sanitary sewers	111
For connection to storm sewers	53

A total of 283 permits for connections and 74 for repairs.

CITY OF CAMBRIDGE—SEWER DEPARTMENT

Catch Basin Cleaning Data.

DATE	No. of C. B. Cleaned	QUANTITY			COST			
		Total Loads	Loads per C. B.	Total C. Y.	Total $	Per C. B.	Per C. Y.	
1905	2169	5213	2.40	3909	6,089.69	2.80	1.55	
1906	2340	5609	2,82	4206	6,050.54	2.58	1.44	
1907	1948	4704	2.40	3528	5,070.78	2.60	1.44	
1908-9	2742	5906	2.15	4429	8,090.67	2.95	1.82	Sixteen months.
1909-10	1874	4157	2.22	3118	6,732.10	3.32	2.16	
1910-11	1672	4181	2.50	3135	6,225.35	3.72	1.98	
1911-12	1466	3676	2.51	2775	6,344.19	4.33	2.30	Sept., 1911, pay raised to $2.25 per day.
1912-13	1438	3463	2.41	2598	5,656.11	3.93	2,18	Total number of Catch Basins, 2,068.
1913-14	1479	3802	2.58	2851	6,223.11	4,21	2.18	
1914-15	1335	3862	2.89	2896	7,559.68	5.66	2.61	Oct. 14, 1914, pay raised to $2.50 per day.
1915-16	1128	3247	2.88	2436	7,309.71	6.48	3.00	Total number of Catch Basins, 2,129.

Classified Schedule of Sewers as Built to April 1, 1916

Vitrified and cement pipe	99.984
Brick	48.751
Miscellaneous materials	3.313
Wood	2.821
Cement concrete	1.643
Iron pipe	0.314
Total length of sewers to date in miles	156.826

LARCHWOOD PARK AND COOLIDGE HILL DEVELOPMENT

The development in the western part of the City of the two tracts known as "Larchwood Park" and "Coolidge Hill" are of more than common interest as they call for rather large expenditures to provide the requisite sewerage facilities; more than a mile of sewers being required to give these sections sewerage. A beginning was made on this work October 27, 1915, and it is proposed to carry it on the coming season.

SEWER DEPARTMENT—FINANCIAL

MAINTENANCE

Appropriation	$20,000 00	
Transferred to Engineering	300 00	
		$19,700 00
Expended		19,324 10
Balance		$375 90

EXPENDED

Catch basin repairs	$633 93	
Catch basin cleaning	7,309 71	
Cleaning and repairing gates	975 72	
Cleaning sumps	447 75	
Cleaning and flushing sewers	1,435 13	
Manhole repairs	275 31	
General expense	4,958 73	
Office	468 44	
Sewer repairs	611 26	
Stable expense	1,148 63	
Pensions	1,059 49	
Total		$19,324 10

CONSTRUCTION GENERAL

Appropriation	$36,346 17
Expended	23,296 31
Balance	$13,049 86

EXPENDED

New catch basins	$684 08	
General expense	849 74	
Lakeview Avenue	155 79	
Allston Street	622 53	
Warwick Park	8 90	
Plympton Street Extension	1,551 40	
Waverley Street	911 37	
Fourth Street	979 71	
Shady Hill Square	674 81	
Scott Street	844 99	
Vassar Street	3,321 42	
Fayerweather and Saville Streets	4,770 71	
Larchwood Drive and Fresh Pond Lane (see also Separate System)	6,913 08	
Coolidge Hill Road, west	1,007 78	
Total		$23,296 31

SEPARATE SYSTEM

Appropriation	$17,268 32
Expended	17,235 78
Balance	$32 54

EXPENDED

General expense	$502 08	
Reservoir Street	1,188 52	
Standish Street	445 72	
Huron Avenue	11,140 89	
Vassal Lane	188 08	
Appleton Street	65 72	
Longfellow Park	110 10	
Leonard Avenue	1,969 25	
Camelia Avenue	983 49	
Manassas Avenue	290 31	
Larchwood Drive and Fresh Pond Lane (see Construction General)	351 62	
Total		$17,235 78

REVENUE

Sewer Assessments	$6,346 17
Sundry Receipts (maintenance)	173 68

METROPOLITAN SEWER TAX

Appropriation		$112,675 22
Sinking Fund requirements	$22,526 55	
Interest account	50,331 94	
Maintenance and operation	37,104 11	
Maturing serial bonds	2,712 62	

WATER WORKS

Water wasted over Stony Brook Dam as follows:

January,	1915	240,400,000	gallons
February	1915	607,700,000	"
March,	1915	117,500,000	"
April,	1915		"
May,	1915	14,350,000	"
June,	1915		"
July,	1915	107,250,000	"
August,	1915	343,000,000	"
September,	1915		"
October	1915		"
November,	1915		"
December,	1915	101,700,000	"

The total amount passing the dam during the year was 1,531,800,000 gallons.

TABLE SHOWING RAINFALL AT STONY BROOK BASIN AT WESTON, AT HOBBS BROOK BASIN IN WALTHAM, AND THE CITY HALL, CAMBRIDGE, AND BAKER'S BRIDGE, LINCOLN, DECEMBER 1, 1914, TO JANUARY 1, 1916.

Day of Month	1914 DECEMBER				1915 JANUARY				FEBRUARY				MARCH				APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER				Day of Month
	Stony Brook	Hobbs Brook	City Hall	Baker's Bridge	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	
1						0.05		0.01			0.90	0.75										0.31	0.35						4.29	4.01	5.50	4.06																			1
2	0.14	0.20	0.11	0.10		0.10			0.80	1.23	0.95	0.68											T						0.44	0.41	0.57	0.34		0.25	0.17	0.37					0.94	1.10	1.22	1.05					0.03	0.05	0.02	T	2
3				0.01					0.15	0.27	0.07	0.07					0.94	0.85	0.92			0.25	0.15	0.46					0.03	0.03	0.03	0.37	0.35	0.25		T								0.43			0.05	0.02							3
4											T						0.06	0.05	0.05										0.29	0.30	0.05		2.61	2.96	3.00	2.40									0.24	0.27							4
5																													0.47	0.45	0.40	0.59	0.03	0.04	0.04	3.20					0.40	0.40	0.30	0.40	0.26	0.28	0.32						5
6				T				0.45	0.35	0.35	0.24	0.30					0.20	0.20	0.23	0.32					0.23	0.27	0.35	0.47				0.06				0.30							0.04				0.62					6
7	0.38	0.34	0.50	0.46	0.60	0.60	0.65			0.05													0.07		0.04	0.05	0.05						0.11							0.06	0.06	0.05										7
8	0.34	0.31	0.44	0.42								0.08									0.37	0.30	0.02	0.34					2.00	2.50	2.04	1.28				0.34					0.63	0.59	0.50	0.69					0.07	0.06	0.06	0.24	8
9				T																												1.42	0.14	0.85														0.05	0.04	0.04		9
10				T																															0.83	0.42															10
11																	0.20	0.30	0.03																0.14																11
12					1.38	1.26	1.50			0.05	0.09	T							0.10									T	0.09	0.15	0.07	0.08													0.05		0.05						12
13	0.45	0.45	0.44	0.43	0.75	0.69	0.82	1.59													0.26	0.45	0.76						0.06			0.35	0.75	0.80	1.01	0.64													1.28	1.46	1.16		13
14	0.54	0.55	0.52	0.47																				0.19					0.08	0.22	0.10											0.13	0.12	0.15					0.17	0.19	0.15	1.26	14
15						0.05	0.05	0.10	0.74	0.59	0.54	0.11														0.05		T													0.57	0.45	0.46	0.46	0.56	0.53	0.62	0.76					15
16									0.26	0.51	0.19	0.59					0.30	0.10	0.67											0.20																						16
17					0.05	0.06	0.06						T		T	T				T	0.27	0.25	0.30	0.32	0.87	0.50	0.70	0.79	0.20	0.10		0.15		0.05													0.19	0.23	0.22		17
18					1.34	1.34	1.36	1.28																					0.09																				1.22	1.43	1.41	1.36	18
19	0.23	0.20	0.23	0.23																					0.06	0.10	0.07		0.29	0.15	0.10	0.09					0.23	0.20	0.14	0.17					1.15	1.00	0.82	0.60					19
20				0.22																					0.54	0.30	0.20	0.42				0.04									0.18	0.30	0.11					0.49					20
21	0.87	0.80	0.07	0.92																	0.11	0.09	0.10	T					0.08	0.10	0.11	0.10					0.80	0.60	0.60	0.74				0.32									21
22				0.90									T			T	0.44	0.36	0.42	0.45				T									1.33	1.04	1.33	0.95															22
23					0.57	0.55	0.46	0.65																									0.07	0.06	0.06													0.23	0.10	0.35		23
24				0.03	0.90	0.05	0.07		0.11	0.12	0.09																																	0.08	0.10	0.03	0.09				0.42	24
25						0.80	1.11	0.25	0.83	0.88	0.66	0.93																						0.20	0.22	0.16														T	25
26																	0.45	0.05	T	0.50	0.17	0.18	0.15	0.17	0.15	0.15	0.20	0.19											0.05								0.86	0.60	0.68	0.08	26
27		0.02	0.04	T				0.01																				T	0.32	1.25	0.48	0.87								0.05	0.12	0.15	0.07	0.19				T	27
28																T			0.03									0.44	0.27	0.30																	0.32	0.26	0.29		28
29	0.46	0.50	0.40	0.39																									0.37	0.23	0.26	0.55			T	T							T	0.30	0.25	0.18	0.23	0.79	0.64	0.71		29
30				T													0.92	0.94	0.15	0.62													0.30	0.25	0.11	0.18												0.42	30
31					0.64	0.30	0.25									T															0.10	T																	31
Total	3.41	3.37	3.55	3.46	6.23	5.85	6.33	4.84	3.24	3.75	3.73	3.51				T	2.07	2.49	3.08	1.44	1.62	2.19	2.32	1.93	1.89	1.42	1.57	1.87	9.54	10.37	10.11	10.35	5.69	6.75	6.91	5.76	1.03	0.85	0.74	0.96	2.90	3.05	2.71	3.58	2.77	2.60	2.19	2.79	5.21	5.05	5.09	3.78	Total

TABLE SHOWING COMPARISON BY MONTHS OF THE PRECIPITATION AT STONY BROOK BASIN, HOBBS BROOK BASIN, BAKER'S BRIDGE, AND CAMBRIDGE CITY HALL; ALSO THE NUMBER OF DAYS IN WHICH RAIN FELL AT CITY HALL, DECEMBER 1, 1914, TO JANUARY 1, 1916.

Point of Observation		1914	1915												
		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Stony Brook Basin	Monthly Precipitation	3.41	6.23	3.24	T	2.07	1.62	1.89	9.54	7.72	1.03	2.90	2.77	5.21	47.63
Hobbs Brook Basin.	Monthly Precipitation	3.37	5.85	3.75		2.49	2.19	1.42	10.37	6.91	0.85	3.05	2.60	5.05	47.90
Baker's Bridge	Monthly Precipitation	3.46	4.84	3.51	T	1.44	1.93	1.87	10.35	5.76	0.96	3.58	2.79	3.78	44.27
City Hall.....	Monthly Precipitation	3.55	6.33	3.73	T	3 08	2.32	1.57	10.11	6.87	0.74	2.71	2.19	5.09	48.29
	No. of days in which rain fell	9	10	10	1	9	10	6	14	10	2	7	8	11	107

SEWERS CONSTRUCTED BETWEEN APRIL 1, 1915 AND APRIL 1, 1916

Street	From	To	Material	Size in Inches			Number of			Average Depth in Feet	Length in feet			Cost		Time when work was	
				Combined	Storm	Sanitary	Manholes	Lamp holes	Inlets		Combined	Storm	Sanitary	Per foot	Total	Begun	Finished
Allston St.	Kenwood St.	Magazine St.	Akron pipe	12, 10	.....	.....	1	1	14	7.5	224.8	.....	.....	$2.77	$622.53	Sept. 21, 1915	Oct. 6, 1915
Camelia Ave.	Cambridge St.	N'ly.	" "	.....	.....	8	1	.....	11	10.2	.....	.....	281.5	3.49	983.49	Nov. 15, 1915	Dec. 4, 1915
Coolidge Hill Rd. W.	Mt. Auburn St.	S'ly.	" "	.....	8, 10	8	1	2	40	9.3	.....	317.5	300.0	3.17	1,007.78	Nov. 5, 1915	Nov. 25, 1915
† Fayerweather St.	Concord Ave.	Saville St.	" "	.....	12	8	1	.....	24	10.7	.....	244.5	249.5	7.66	4,770.71	Aug. 6, 1915	Oct. 19, 1915
‡ Fourth St.	N. of Gore St.	Gore St.	" "	12	.....	.....	.....	.....	8	9.0	111.0	.....	.....	5.00	979.71	July 8, 1915	.....
" "	N. of Cambridge St.	Cambridge St.	" "	10	.....	.....	.....	.....	.....	10.0	85.0	.....	.....	.....	.....	.....	Aug. 24, 1915
§ Fresh Pond Lane and Private Land	Mt. Auburn St.	Larchwood Drive	Concrete and Akron pipe	.....	32x32 32x34	10	2	.....	30	11.3	.....	501.8	525.0	7.40	7,264.70	Oct. 28, 1915	Dec. 29, 1915
o Huron Ave.	Reservoir St.	Fayerweather St.	Akron pipe	.....	.....	8	.....	1	21	9.5	.....	.....	328.6	3.36	11,586.61	April 1, 1915	April 20, 1915
" "	Vassal Lane	Reservoir St.	" "	.....	.....	8	1	1	20	10.0	.....	.....	355.7	.....	.....	April 17, 1915	May 5, 1915
" "	Standish St.	Fayerweather St.	" "	.....	.....	8	.....	1	17	9.4	.....	.....	299.2	.....	.....	April 30, 1915	May 15, 1915
* " "	Appleton St.	Concord Ave.	" "	.....	15, 10	10, 8	2	.....	86	10.5	.....	474.9	906.6	.....	.....	May 5, 1915	July 7, 1915
" "	Lake View Ave.	Lexington Ave.	" "	.....	.....	8	1	1	17	10.0	.....	.....	285.2	.....	.....	May 14, 1915	May 27, 1915
" " and Lexington Ave.	Lexington Ave.	Fresh Pond Parkway	" "	.....	.....	8	4	.....	41	10.3	.....	.....	883.7	.....	.....	May 26, 1915	July 17, 1915
Lake View Ave.	N. side Huron Ave.	S side Huron Ave.	" "	.....	.....	8, 10	.....	.....	.....	10.2	.....	.....	64.5	2.41	155.79	Sept. 8, 1915	Sept. 17, 1915
° Larchwood Drive	Fresh Pond Lane	Fresh Pond Parkway	" "	.....	12, 10	8	1	2	42	9.5	.....	455.0	456.4	.....	.....	Dec. 13, 1915	March 31, 1916
Leouard Ave.	Cambridge St.	Line St.	" "	.....	.....	8	1	1	49	10.2	.....	.....	689.7	2.85	1,969.25	Oct. 1, 1915	Nov. 6, 1915
Manassas Ave.	S. of Concord Ave.	S'ly.	" "	.....	.....	8	.....	1	7	7.2	.....	.....	122.8	2.36	290.31	Dec. 6, 1915	Dec. 14, 1915
Plympton St.	Extension of Outlet	Charles River	Concrete and Wood	.....	48x48	.....	.....	.....	.....	5.0	.....	47.0	.....	33.01	1,551.40	June 14, 1915	Aug. 28, 1915
Reservoir St.	S. of Huron St.	S'ly.	Akron pipe	.....	.....	8	2	.....	22	9.7	.....	.....	349.0	3.40	1,188.52	April 1, 1915	April 13, 1915
**Saville St.	Fayerweather St.	Walden St.	" "	.....	10	8	1	.....	42	9.8	.....	373.3	373.3	.....	.....	Oct. 4, 1915	Oct. 30, 1915
Scott St.	Holden St.	E'ly.	" "	.....	10	8	.....	2	22	8.5	.....	243.7	211.3	3.46	844.99	July 28, 1915	Aug. 7, 1915
Shady Hill Sq.	Holden St.	E'ly.	" "	.....	10, 8	8	1	2	14	7.0	.....	243.7	245.4	2.75	674.81	July 19, 1915	July 30, 1915
Standish St. and Huron Ave.	End as built Standish St.	Lake View Ave.	" "	.....	.....	8	1	1	19	9.6	.....	.....	387.8	.....	.....	April 9, 1915	April 30, 1915
Vassar St.	Pacific St.	Fowler St.	" "	.....	12	8	1	.....	39	14.5	.....	367.8	367.8	9.03	3,321.42	Aug. 9, 1915	Oct. 6, 1915
Waverly St.	Erie St.	N'ly.	" "	.....	12	8	.....	.....	10	10.8	.....	198.4	198.4	4.59	911.37	June 30, 1915	July 23, 1915

* 242.6 ft. of old 15-in. pipe taken out and relaid over new 10-in. pipe.
† Cost includes Saville St. 207.0-ft. on pile foundation.
‡ Cost includes Fourth St. N. of Cambridge to Cambridge St.
§ Cost includes Larchwood Drive.
o Cost includes entire length of Huron Ave.
° Included in cost of Fresh Pond Lane.
**Included in cost of Fayerweather St. 152.0-ft. on pile foundation.

MAINTENANCE AND OPERATION

RECEIPTS		EXPENDITURES	
Appropriation	$19,700 00	Administration	$2,468 44
Sundries	173 68	Repairs	2,496 22
		Cleaning sewers	447 75
		Cleaning catch basins	7,309 71
		Flushing sewers	1,435 13
		Unclassified expenses	5,166 85
		Balance	375 90
	$19,873 68	Total	$19,700 00
		Interest on bonds	
		Sinking funds	

GENERAL

Total cost of collecting mains .....
Total cost of works to date $2,427,324 89
Bonded debt at date .....
Value of sinking funds at date.....
Average rate of interest on bonds 3½ and 4 per cent.
Proportion of cost of system assessed on abutters estimated at ¾.
Yearly assessment for maintenance, nothing.
Methods of assessing abutters and rate of assessment, based on frontage and area of lot within 100 feet of street.

The Engineering Department is organized as follows:

City Engineer,
LEWIS M. HASTINGS

Principal Assistant,
GEORGE DAVIS

Assistants
HENRY T. BURRAGE, Office Assistant and Draughtsman
G. FRANK HOOKER, in charge of Street Work
EDGAR W. DAVIS, in charge of Sewer Work

Transitmen,
RAY L. COOLIDGE HENRY F. ROWE

Rodman,
DONALD J. REARDON

Clerk and Stenographer,
OLIVE T. DANEHY

Superintendent of Sewers,
THOMAS P. O'NEILL

Two temporary assistants in addition to the above have been employed in the department during the summer.

Respectfully submitted,

L. M. HASTINGS,
City Engineer.

REPORT OF THE BOARD OF HEALTH.

JANUARY 1, 1916.

To the Honorable, the City Council of the City of Cambridge, Mass.

In compliance with the Revised Laws, Chapter 75, Section 11, the Board of Health submits herewith its annual report for the year ending December 31, 1915.

In accordance with the Board's recommendation to the Mayor in November, 1915, the Diphtheria Hospital was closed in July; and since that time all diphtheria cases requiring hospital treatment have been sent to the West Department of the Massachusetts Homeopathic Hospital in Brighton, where the Board of Health has been sending scarlet fever cases for some years. The purchase of a new motor ambulance made it possible to get the cases to the hospital even more quickly than was possible, with the old horse ambulance, within the city limits.

The house at No. 59 Reservoir Street was taken and fitted for the reception of diphtheria patients in 1899, and (except a few months in 1900, when it was closed) has been in continual use as a hospital for diphtheria up to July of this year. The first patient was admitted on December 7, 1899; the last one on July 9, 1915; during that period there have been admitted 2,134 patients.

Immediately after the closing of the hospital, the building and land were turned over to the Mayor, to dispose of as he saw fit, with, however, the recommendation that the building be burned.

This year, once again, the department met with a loss by death. Dr. Thomas J. Leahy, who had given the city nearly thirteen years of faithful and efficient service as school physician, died on December 25th.

Today marks the opening of two new branches of the department:

The Board of Health Dispensary for Tuberculosis is at No. 631 Massachusetts Avenue. The office is to be open daily from 8 to 9 A. M. Clinics are to be held Thursday evenings at 7.30, and Tuesday and Saturday mornings at 10 (the latter for children especially). A physician and nurse will be in attendance at the clinics.

The Dental Clinic, located in one of the buildings of the Cam-

bridge Hospital on Mt. Auburn Street, provides dental treatment for the Cambridge school children. The Board desires to give due credit to several persons who were actively interested in this subject.

Attention is called to the reports of the various sub-divisions of the department, which follow:

GEORGE A. WHITE, M.D., *Chairman,*
ELIE H. LA PIERRE,
JEREMIAH S. SULLIVAN,

Board of Health.

EXPENDITURES AND RECEIPTS.

EXPENDED FOR SALARIES.

January 1—December 31, 1915.

Medical Inspector	$2,291 67	
Bacteriologist	1,080 00	
Clerk	1,196 69	
Secretary	936 00	
Social Worker	780 00	
Sanitary Inspectors	3,097 46	
Plumber	1,096 97	
Driver	1,092 00	
Inspector of Provisions	1,553 02	
School Nurses	2,046 01	
School Inspectors	2,000 00	
Additional Inspector of Slaughtering	755 00	
		$17,924 82

EXPENDED FOR GENERAL EXPENSES.

January 1—December 31, 1915.

Board and care:			
Dog-bite	$150 00		
Measles	24 00		
Scarlet Fever	12,939 00		
Tuberculosis	64 29		
Typhoid Fever	644 71		
Whooping Cough	99 00		
		$13,921 00	
Reimbursement of other cities and towns, and of the commonwealth:			
Diphtheria	$617 15		
Scarlet Fever	1,329 12		
Tuberculosis	2,836 62		
		$4,782 89	
Burning of dead animals		56 50	
Car tickets		800 00	
Collection of Cultures		162 00	
Disinfecting and inspecting supplies		306 79	
Express and freight		1 15	
Harness, wagon, and ambulance, repairs and maintenance		123 33	
Horse board, storage and hire		486 21	
Horse shoeing, etc.		55 74	
Ice		53 46	
Laboratory supplies		184 57	
Printing, postage, stationery and office supplies		720 59	
Public sanitaries		7 54	
Service of Orders		16 80	
Telephones		143 90	
Incidentals:			
Advertising regulation No. 134	$22 86		
Consultation small-pox specialist	25 00		
Services temporary stenographer	138 61		
Health Exhibit expenses	8 34		
		$194 81	
			$22,017 28

EXPENDED FOR TUBERCULOSIS HOSPITAL.

January 1—December 31, 1915.

Salaries:			
Physician	$1,200 00		
Interne	429 68		
Matron	832 00		
Nurses	2,662 93		
Caretaker	624 00		
Night watchman	624 00		
Cook	517 15		
Assistant cook	378 00		
Dishwasher	324 00		
Laundresses	636 00		
Maid	324 00		
Scrubwoman	371 00		
		$8,922 76	
Electric light and power		938 42	
Express		1 27	
Fuel		1,536 70	
Gardening and garden supplies		11 76	
Groceries and provisions		8,694 22	
Household supplies and furnishings		799 83	
Ice		350 50	
Medical and nursing supplies		798 98	
Milk		2,776 45	
Repairs and alterations		9 11	
Stationery and postage		72 70	
Telephones		84 03	
Services—orthopedic specialist		65 00	
Services—throat specialist		30 00	
Incidentals		3 26	
			$25,094 99

EXPENDED FOR DIPHTHERIA HOSPITAL.

January 1—July 31, 1915.

Salaries:			
Physician	$700 00		
Matron	455 00		
Nurses	1,128 65		
Janitor	486 25		
Cook	231 00		
Laundress	198 00		
House servant	186 00		
		$3,384 90	
Express and freight		25 90	
Fuel		108 03	
Gas		79 44	
Groceries and provisions		1,089 93	
Household supplies and furnishings		152 83	
Ice		45 15	
Medical and nursing supplies		245 93	
Milk		322 30	
Repairs		2 69	
Stationery and postage		2 04	
Telephone		43 28	
Incidentals		4 90	
			$5,507 32

Purchase of New Motor Ambulance		$3,840 00	
Board of Diphtheria cases at Homeopathic Hospital		1,381 50	
			$10,728 82

EXPENDED FOR INSPECTION OF MILK AND VINEGAR.

January 1—December 31, 1915.

Salaries:			
Inspector	$1,200 00		
Collection of samples	973 43		
		$2,173 43	
Car tickets		80 00	
Printing, postage and stationery		38 22	
Supplies		112 25	
Incidentals		65	
			$2,404 55

EXPENDED FOR MODIFIED MILK.

January 1—December 31, 1915.

Salaries:			
Modifying milk	$189 71		
Nurses	297 55		
Washing bottles	79 60		
Carting milk	117 14		
		$684 00	
Printing, postage and stationery		52 12	
Supplies		1,068 82	
			$1,804 94

RECEIPTS.

January 1—December 31, 1915.

Board and care paid directly by patients:			
Diphtheria	$129 72		
Dog-bite	50 30		
Measles	10 00		
Scarlet fever	259 00		
Tuberculosis	1,444 45		
Typhoid fever	25 00		
		$1,918 47	
Reimbursement from other cities and towns, and from the commonwealth:			
Diphtheria	$968 59		
Scarlet fever	1,667 51		
Tuberculosis	3,514 52		
Typhoid fever	88 00		
		6,238 62	
Tuberculosis subsidy		11,440 53	
Miscellaneous		2 88	
			$19,600 50

		Board	Reimbursement	Subsidy	Totals
Diphtheria	Expended	$6,888.82	$617.15	.....	$7,505.97
	Received	129.72	968.59	.....	1,098.31
Dog-bite	Expended	150.00	.....	.....	150.00
	Received	50.30	.....	.....	50.30
Measles	Expended	24.00	.....	.....	24.00
	Received	10.00	.....	.....	10.00
Scarlet Fever	Expended	12,939.00	1,329.12	.....	14,268.12
	Received	259.00	1,667.51	.....	1,926.51
Tuberculosis	Expended	25,159.28	2,836.62	.....	53,995.50
	Received	1,444.45	3,514.52	$11,440.53	16,399.50
Typhoid Fever	Expended	644.71	.....	.....	644.71
	Received	25.00	88.00	.....	113.00
Whooping Cough	Expended	99.00	.....	.....	99.00
	Received		.....	.....	

KITTIE L. MAGOUN,
Secretary.

VITAL STATISTICS.

Death Rate per 1,000 Living from All Causes
Population, 109,023

1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
14.80	15.21	16.06	14.71	15.01	15.30	13.40	13.69	13.42	13.39
15.77	15.28	15.71	14.97	15.41	16.09	14.25	14.40	14.04	14.12

As in the past few years, the table of death rates above has been computed from two sets of statistics. The lower row of death rates is that obtained by including in the number of deaths those of Cambridge residents who died outside of Cambridge and excluding death in the city of non-residents. The upper row is obtained from actual number of deaths in the city, includes deaths of non-residents and excludes deaths of Cambridge citizens when they did not occur in the city.

The figures given for the population are estimated by the method adopted by the Bureau of the Census, and given as Method V on page 9 of Bulletin No. 108, by using the figures of the Massachusetts census of 1915 and the United States census of 1910.

Male death rate for 1915	13.86	14.69
Female death rate for 1915	12.96	13.59
Mean annual death rate for the ten years 1906 to 1915 inc.	14.44	14.80

In this table the first column of figures is derived from the total number of deaths in the city, the second by excluding non-residents and including residents of Cambridge, who died outside the city.

Table A gives the causes of death by ages in accordance with the International Classification of Causes of Death, of those persons only who died in Cambridge, and includes non-residents.

Table B gives the number of cases reported, the morbidity per 1,000 living, the death rate per 1,000 living, including residents who died outside of Cambridge, and the death rate per 100 cases reported of diphtheria, scarlet fever, measles and typhoid fever for the years 1906 to 1915 inclusive. If the death rate per 1,000 living, computed from deaths in the city only, varies from that given in the table, the fact is stated in a footnote.

Table C gives the death rates per 1,000 living for cancer, diarrheal

diseases, whooping cough, bronchitis, pneumonia and tuberculosis for the years 1906 to 1915 inclusive, for Cambridge residents, and Table C I the same information for the years 1906 to 1915 inclusive of those dying in the city, including non-residents.

BRADFORD H. PEIRCE, M. D.,
Medical Inspector.

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total over 5		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
I. General Diseases																																			
1. Typhoid Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	..	2
2. Exanthematous Typhus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Relapsing Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Malarial Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Smallpox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Measles	2	2	..	1	..	..	..	..	..	..	2	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
7. Scarlet Fever	..	..	..	2	1	..	..	..	..	1	1	3	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	5
8. Whooping Cough	5	4	..	3	..	1	..	..	..	..	5	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13
9. Diphtheria	1	3	1	3	1	..	2	3	..	..	5	9	5	5	1	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	6	28
9a. Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. Influenza	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	1	..	..	1	..	..	1	1	1	1	2	..	..	6	3	10
11. Miliary Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. Asiatic Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. Cholera Nostras	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1
14. Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. Plague	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. Yellow Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Leprosy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	..	2
19. Other epidemic diseases	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. Septicemia (and purulent infection)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
21. Glanders and Farcy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
22. Anthrax (malignant pustule)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. Rabies	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. Tetanus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. Mycoses	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. Pellagra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Beriberi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the Lungs	..	1	..	..	1	1	1	..	..	..	2	2	..	1	1	1	9	7	23	31	29	19	32	10	13	6	9	1	1	3	..	1	..	..	117	80	201
29. Acute Miliary Tuberculosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	2	3
30. Tuberculous Meningitis	1	..	..	..	1	1	1	..	..	..	3	1	1	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	7
31. Abdominal Tuberculosis	1	..	..	..	..	..	..	..	..	..	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3
32. Pott's Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	2	3
33. White Swelling	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	3	..	3
35. Disseminated Tuberculosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1
35a. Scrofula	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Rickets	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
37. Syphilis	1	3	..	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	5

TABLE A—Continued

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total over 5		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
I. General Diseases—Continued																																			
38. Gonococcus Infection																																			
39. Cancer (or Malignant Tumor) of Mouth																									3		1	1			1				5	1	6
40. Cancer of Stomach and Liver.							1				1								1			1		4	2	7	1	7	1	4	2	2	1		8	25	34
41. Cancer of Intestines and Peritoneum																					1	1	2	2	1	4	3	2	2	3	2	1			11	13	24
42. Cancer of Female Genital Organs																								7		5		2		2						16	16
43. Cancer of Breast																						3		4		6		2		2		1				18	18
44. Cancer of Skin																															1	1			1	1	2
45. Cancer of Other Organs																		1			2		1		1	2	3	2	3		3	4		1	13	10	23
46. Tumor (non-malignant and excepting those of female genital organs)																																					
47. Acute Articular Rheumatism.																	1		1		1	1	1	1						1					4	3	7
48. Chronic Rheumatism and Gout																														1						1	1
49. Scurvy																																					
50. Diabetes																1				1	1		2	3	2	1	1	6	2	3		1			8	16	24
51. Exophthalmic Goitre																																					
52. Addison's Disease																							1												1		1
53. Leukemia																			1																1		1
54. Anemia, Chlorosis																								2	1			1							1	3	4
55. Other general diseases	1										1																										1
56. Alcoholism (acute or chronic)																					1	1	1	1					1						3	2	5
57. Chronic Lead Poisoning																																					
58. Other chronic occupation poisonings																																					
59. Other chronic poisonings																																					
II. Diseases of the Nervous System and Other Organs of Special Sense																																					
60. Encephalitis																																					
61. Meningitis, simple	2	2							1		3	2			1																1				2		7
61a. Meningitis, Epidemic Cerebro Spinal	1										1																										1
62. Locomotor Ataxia																								2		1										3	3
63. Other Diseases of the Spinal Cord																								1	2		1	2							3	3	6
63a. Acute Anterior Polio-Myelitis																																					

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total over 5		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
II. Diseases of the Nervous System, Etc.—Continued																																				
64. Apoplexy, and Cerebral Hemorrhage	1										1				1								1	4	6	4	11	22	8	15	3	8		1	29	55	85
65. Softening of the Brain																													1						1		1
66. Paralysis (undefined)																									1			2	1		1	2			2	5	7
67. General Paralysis of the Insane																																					
68. Other forms of Mental Alienation																									1										1		1
69. Epilepsy																																					
70. Convulsions (non-puerpereal)																																					
71. Convulsions of Children	2			1							2	1																									3
72. Chorea																																					
73. Neuralgia and Neuritis																														1						1	1
74. Other Diseases of Nervous System																			1	1	1	1					1								3	2	5
75. Diseases of the Eye and its Adnexa																																					
76. Diseases of the Ear													1							1															1	1	2
III. Diseases of the Circulatory System																																					
77. Pericarditis							1					1							1																1		2
78. Endocarditis, Acute	1										1										2	2	1	1		1									3	4	8
79. Organic Diseases of Heart															1		2	2	1	1	6	4	10	11	20	20	24	28	20	34	7	11	1	3	92	114	206
80. Angina Pectoris																								1	2		5	1	3	4	1				11	6	17
81. Diseases of Arteries																										1	3	6	7	7	5	5	1	2	16	21	37
82. Embolism and Thrombosis																													1	1					1	1	2
83. Diseases of Veins																									1											1	1
84. Diseases of Lymphatic System														1																						1	1
85. Hemorrhages (except of lungs). Other Diseases of Circulatory System																																					
IV. Diseases of the Respiratory System (Except Tuberculosis)																																					
86. Diseases of Nasal Fossae																																					
87. Diseases of the Larynx	2										2														1										1		3

TABLE A—Continued

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total over 5		Total
CAUSES OF DEATH	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
IV. Diseases of the Respiratory System—Continued																																			
88. Diseases of the Thyroid Body	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
89. Acute Bronchitis	3	2	2	1	..	..	..	..	..	..	5	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	1	1	2	..	..	2	5	15
90. Chronic Bronchitis	2	4	..	1	..	..	..	..	..	..	2	5	..	..	..	..	..	..	..	..	..	..	1	1	2	2	..	2	..	3	1	1	4	9	20
91. Broncho-Pneumonia	12	9	3	4	1	..	2	2	..	..	18	15	1	1	..	..	..	..	..	..	..	..	4	..	2	1	2	3	2	1	..	2	11	8	52
92. Pneumonia	8	3	4	2	2	1	..	2	..	..	14	8	1	..	..	..	3	..	1	3	7	2	7	5	2	5	12	14	5	8	4	1	1	..	43	38	103
93. Pleurisy	1	...	1	..	..	..	..	..	..	..	2	...	..	..	..	..	..	..	..	1	..	..	..	..	..	..	...	...	..	1	..	..	..	..	...	2	4
94. Congestion of Lungs and Pulm. Apoplexy	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
95. Gangrene of Lungs	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
96. Asthma	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
97. Emphysema	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
98. Hemorrhage and other diseases of resp. system (except Phthisis)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
V. Diseases of the Digestive System																																			
99. Diseases of the Mouth and Adnexa	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
100. Tonsillitis and dis. of the Pharynx	...	1	..	..	..	..	..	1	..	..	...	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	1	3
101. Diseases of the Esophagus	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
102. Ulcer of Stomach	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	1	..	..	..	1	1	.	.	.	.	1	..	1	..	..	2	4	6
103. Gastritis and other dis. of Stomach	5	1	..	..	..	..	..	..	..	..	5	1	..	..	..	..	..	..	..	..	..	..	2	..	...	...	..	...	..	..	..	..	1	2	1	9
104. Diarrhea and Enteritis (under 2 years)	28	21	4	1	..	..	..	..	..	..	32	22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	54
105. Diarrhea and Enteritis (2 years and over)	...	..	.	..	..	1	..	..	..	..	...	1	..	..	..	..	..	1	..	..	..	..	1	..	1	1	2	1	1	3	1	..	..	..	6	6	13
106. Ankylostomiasis	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
107. Intestinal Parasites	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
108. Appendicitis and Typhlitis	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	2	..	..	..	2	2	1	..	...	...	..	...	..	..	..	..	5	2	7
109. Hernia and Obstruction of Intestines	1	1	..	..	..	..	..	..	..	..	1	1	..	..	..	..	1	..	..	..	..	..	1	1	..	3	1	...	1	1	..	2	..	..	4	7	13
110. Other Diseases of Intestines	...	...	..	..	..	1	..	..	..	..	...	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	1
111. Acute Yellow Atrophy of Liver	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
112. Hydatid Tumors of Liver	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	....
113. Cirrhosis of Liver	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	1	1	1	1	1	...	..	2	..	..	..	..	3	4	7

TABLE A—Continued

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total over 5		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
V. Diseases of the Digestive System—Continued																																			
114. Biliary Calculi	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	1	..	1	...	2	2
115. Other Diseases of Liver	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	1	..	...	...	1	1	..	..	..	2	1	3
116. Diseases of Spleen	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	...	...	...	..	..	...	...	....
117. Peritonitis (non-puerperal)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	1	..	...	1	..	...	..	..	..	...	1	2
118. Other Diseases of Digestive System	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	1	..	..	1	..	...	...	...	...	..	..	..	1	1	2
VI. Diseases of the Genito-Urinary System (Non-Venereal)																																			
119. Acute Nephritis	...	...	..	..	..	..	2	..	..	..	2	...	..	..	..	..	..	..	..	..	1	1	1	1	..	1	1	..	...	..	..	..	2	2	6
120. Brights Disease	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	1	2	1	1	4	4	7	7	8	7	3	3	2	3	..	1	26	28	54
121. Chyluria	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
122. Other dis. of Kidneys and Adnexa	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	...	..	...	..	..	2	...	2
123. Calculi of Urinary Tract	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	...	..	...	..	..	...	...	....
124. Diseases of Bladder	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	1	..	..	1	...	...	3	...	3	..	..	7	1	8
125. Diseases of Urethra, Urinary Abscess, etc.	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	1	..	...	...	..	...	..	..	..	1	...	1
126. Diseases of Prostate	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	...	..	...	..	..	..	2	...	2
127. Non-venereal dis. of (male) genital organs	1	...	..	..	..	..	..	..	..	..	1	...	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	...	...	...	..	..	...	...	1
128. Uterine Hemorrhage (non-puerperal)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	...	...	...	..	..	...	...	....
129. Uterine Tumor (non-cancerous)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	2	...	...	...	...	...	..	..	...	...	....
130. Other Diseases of Uterus	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	1	..	..	1	...	...	...	...	...	..	..	...	2	2
131. Ovarian Tumors	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	1	...	...	...	...	...	..	..	...	2	2
132. Salpingitis and other Diseases of Female Genital Organs	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	2	..	..	...	...	...	...	...	..	..	...	...	....
133. Non-puerperal Disease of Breast (except Cancer)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	...	...	...	..	..	...	2	2
VII. Puerperal State																																			
134. Accidents of Pregnancy	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	...	...	...	..	..	...	...	....
135. Puerperal Hemorrhage	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	...	...	...	..	..	...	...	....
136. Other Accidents of Labor	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	1	..	..	..	...	...	...	...	...	..	..	...	...	....
137. Puerperal Septicemia	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	1	..	2	..	1	..	...	...	...	...	...	..	..	...	1	1
																																		4	4

TABLE A—Continued

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total over 5		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
VII. Puerperal State—Continued																																			
138. Puerperal Convulsions	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	1	..	2	..	..	..	..	...	...	..	...	..	..	..	...	3	3
139. Puerperal Phlegmasia Alba Dolens. embolus, etc.	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	2	..	..	..	..	..	..	...	...	..	...	..	..	..	...	2	2
140. Other Puerperal Accidents, (undefined)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	....
141. Puerperal Diseases of Breast	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	....
VIII. Diseases of Skin																																			
142. Gangrene	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..	1	..	1	..	..	2	3	5
143. Furuncle (Carbuncle)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	....
144. Abscess. Phlegmon	1	...	..	..	..	..	..	..	..	..	1	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	1
145. Other Diseases of Skin	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	....
IX. Disease of Bone and Organs of Locomotion																																			
146. Diseases of Bones (non-tuberculous)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	1	..	1	..	..	..	..	..	..	2	..	..	...	...	..	...	..	..	..	...	2	2	4
147. Diseases of Joints (except Rheumatism and Tuberculosis)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	....
148. Amputation	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	....
149. Other Diseases of Organs of Locomotion	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	....
X. Malformations																																			
150. Congenital Malformations	12	13	..	1	..	..	..	..	..	..	12	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	26
XI. Early Infancy																																			
151. Premature Birth, Marasmus, etc.	26	25	..	..	..	..	..	..	..	..	26	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	51
152. Other Diseases of early infancy	15	7	..	..	..	..	..	..	..	..	15	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	22
153. Lack of Care	1	...	..	..	..	..	..	..	..	..	1	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	...	...	1

TABLE A—Continued

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total over 5		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
XII. Old Age																																			
154. Old Age, Senile Debility	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	1	...	1	2	..	1	3	3	6
XIII. Violence																																			
155. Suicide by Poison	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	1	..	..	..	..	..	1	...	...	..	..	..	..	..	..	1	1	2
156. Suicide by Asphyxia	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	..	..	..	1	...	..	1	1	2
157. Suicide by Hanging or Strangulation	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	...	..	..	..	..	..	..	2	...	2
158. Suicide by Drowning	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	1
159. Suicide by Fire Arms	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	1
160. Suicide by Cutting Instruments	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	2	...	2
161. Suicide by Jumping from High Places	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....
162. Suicide by Crushing	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....
163. Other Suicides	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....
164. Poisoning by Food	...	...	..	..	1	..	..	..	..	..	1	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	1
165. Other Acute Poisonings	...	...	1	..	..	..	..	1	..	..	1	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	3
166. Conflagration	...	...	..	..	..	1	..	..	..	1	...	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	2
167. Burns and Scalds (Confl'n excepted)	...	1	..	..	1	..	1	..	..	..	2	1	..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	2	6
168. Absorption of Deleterious Gases (Confl'n excepted) ..	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	1
169. Accidental Drowning	...	...	..	..	..	..	..	..	..	..	...	...	..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	1	3
170. Traumatism by Fire Arms	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	1
171. Traumatism by Cutting Instruments	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....
172. Traumatism by Fall	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	1	..	2	1	3	..	2	..	1	...	1	3	1	6	..	..	11	10	21
173. Traumatism in Mines and Quarries	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....
174. Traumatism by Machines ...	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....
175. Traumatism by Other Crushing, (Vehicles, Landslides, Etc.)	...	...	..	..	..	..	..	..	1	..	1	...	4	1	1	..	1	..	1	..	2	..	4	..	2	1	1	...	2	1	..	..	..	..	18	3	22
176. Injuries by Animals	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....
177. Starvation	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....
178. Excessive Cold	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	...	...	....
179. Effects of Heat	...	...	..	1	..	..	..	..	..	..	...	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	1
180. Lightning	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	1
181. Electricity (except Lightning)	...	...	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	....

TABLE A—Continued

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total over 5		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
XIII. Violence—Continued																																			
182. Homicide by Firearms	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....
183. Homicide by Cutting Instruments	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....
184. Homicide by Other Means	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
185. Fractures, cause not specified	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	1	...	...	...	...	...	...	1	...	1
186. Other External Violence	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
XIV. Ill-Defined Diseases																																			
187. Ill-defined Organic Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....
188. Sudden Death	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....
189. Non-specified or Ill-defined Causes of Death	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	1	...	...	...	...	...	1	...	...	...	...	...	...	...	2	2
	138	105	17	21	9	8	10	9	2	2	176	145	13	13	7	6	22	12	44	51	64	43	80	76	88	85	105	118	74	114	44	61	6	13	547	592	1460
Still Born	68	49	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...	..	...	..	..	..	..	...	...	*118

*Includes one of unknown sex.

Males	723
Females	737
	1460

TABLE B.

		1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Diphtheria	Number of cases reported.....	517	323	422	278	310	397	264	219	233	358
	Morbidity per 1,000 living.....	5.23	3.22	4.15	2.69	2.96	3.75	2.45	2.35	2.15	3.28
	Death-rate per 1,000 living.....	0.26	0.19	0.34	0.20	0.24	0.72	0.24	0.15	0.18	0.35
	Case death-rate, percentage.....	5.02	5.88	8.29	7.55	8.06	11.08	9.85	7.31	8.58	10.61
Scarlet Fever	Number of cases reported.....	166	414	495	365	349	213	157	129	332	379
	Morbidity per 1,000 living.....	1.68	4.13	4.86	3.53	3.33	2.04	1.47	1.20	3.07	3.48
	Death-rate per 1,000 living.....	0.06	0.10	0.11	0.14	0.05	0.06	0.02	0.18	0.05	1.83
	Case death-rate, percentage.....	3.62	2.41	2.22	3.84	1.43	2.82	1.27	1.55	1.51	5.28
Measles	Number of cases reported.....	631	60	1,197	542	287	605	1,015	1,085	703	871
	Morbidity per 1,000 living.....	6.38	0.60	11.76	5.25	2.74	5.77	9.54	10.08	6.50	7.99
	Death-rate per 1,000 living.....	0.05	0.08	0.10	0.03	0.04	0.12	0.09	0.11	0.13	0.05
	Case death-rate, percentage.....	0.79	13.33	0.83	0.55	1.39	2.15	0.99	1.11	1.99	0.57
Typhoid Fever	Number of cases reported.....	128	90	87	75	70	56	55	105	51	35
	Morbidity per 1,000 living.....	1.29	0.90	0.85	0.73	0.67	0.54	0.52	0.98	0.47	0.32
	Death-rate per 1,000 living.....	0.19	0.10	0.11	0.10	0.12	0.05	0.05	0.12	0.03	0.03
	Case death-rate, percentage.....	14.84	11.11	12.64	13.33	18.57	8.93	9.09	12.38	5.88	8.57

The death-rate per 1000 for those dying in Cambridge in 1915 was, for diphtheria, 0.257; scarlet fever, 1.834; and typhoid fever, 0.018.

TABLE C.

TABLE C 1.

		1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1913	1914	1915
Death Rates per 1,000 living	Cancer	0.83	0.77	0.81	0.66	0.86	0.92	0.80	0.77	0.97	1.09	0.99	1.04	1.13
	Diarrheal Diseases	1.03	0.94	1.32	1.12	1.19	1.13	1.05	1.03	0.94	0.72	0.88	0.79	0.62
	Whooping Cough..	0.46	0.10	0.28	0.066	0.048	0.23	0.07	0.11	0.09	0.12	0.10	0.09	0.12
	Bronchitis.....	0.41	0.47	0.30	0.40	0.29	0.37	0.31	0.23	0.33	0.32	0.22	0.32	0.32
	Pneumonia.....	1.67	1.39	1.69	1.96	2.17	1.83	1.94	1.95	1.83	1.61	1.82	1.66	1.42
	Pulmonary Tuberculosis.....	1.58	1.68	1.36	1.46	1.58	1.45	1.30	1.34	1.25	1.38	1.81	1.67	1.84

TABLE D, 1915

	Diphtheria	Scarlet Fever	Measles	Typhoid Fever	Pulmonary Tuberculosis	Other Forms Tuberculosis	Chicken Pox	Whooping Cough	Ophthalmia Neonatorum	Mumps	Trachoma	Septic Sore Throat	Cerebro-Spinal Meningitis	German Measles	Suppurative Conjunctivitis	Malaria	Dog-bite requiring Anti-rabic Treat'm't	Anterior Poliomyelitis	Tetanus	Dysentery Amebic & Bacillary	Totals
January 1, 2....	1	....	1	....	4	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	8
Week ending:																					
January 9....	6	5	7	....	4	....	16	1	3	2	....	....	....	....	....	....	....	....	....	....	44
16....	5	9	9	....	9	....	10	....	2	1	1	....	....	....	....	....	....	....	....	....	46
23....	4	9	8	1	4	2	8	....	....	2	....	....	....	....	....	....	....	....	....	....	38
30....	8	6	7	....	5	....	8	7	1	2	....	1	1	....	....	....	....	....	....	....	46
February 6....	7	10	15	1	6	2	7	....	2	2	....	....	....	1	....	....	....	....	....	....	53
13....	8	4	8	....	5	....	2	1	4	5	....	....	....	....	....	....	....	....	....	....	37
20....	12	11	11	....	8	....	4	2	2	4	....	....	....	....	..	....	....	....	....	....	54
27....	8	9	26	....	9	2	3	2	3	1	....	....	....	....	....	....	....	....	....	....	63
March 6....	8	3	19	....	5	2	2	....	1	4	....	....	....	1	....	....	....	....	....	....	45
13....	4	7	25	....	7	1	2	2	1	4	....	....	....	....	....	....	....	....	....	....	53
20....	15	6	29	....	8	1	4	7	....	1	....	....	....	....	....	....	....	....	....	....	71
27....	7	8	31	1	6	3	9	1	1	5	....	....	....	....	....	....	....	....	....	....	72
April 3....	8	12	24	....	4	1	4	2	1	3	....	....	....	1	....	....	....	....	....	....	60
10....	11	9	18	1	4	....	7	....	2	2	....	....	....	2	....	....	....	....	....	....	56
17....	10	10	36	....	6	1	6	....	1	1	....	2	....	1	2	....	....	....	....	....	76
24....	12	10	81	....	9	1	18	....	1	4	....	1	....	....	....	....	....	....	....	....	137
May 1....	8	9	65	1	6	2	3	5	....	8	....	3	....	2	....	....	....	....	....	....	112
8....	4	14	79	1	11	....	6	7	1	4	....	....	....	2	....	....	....	....	....	....	129
15....	11	9	87	....	7	....	11	4	1	12	....	....	....	....	....	....	....	....	....	....	142
22....	8	17	54	1	1	....	3	5	1	4	....	3	....	2	....	....	....	....	....	....	99
29....	6	7	40	3	4	....	5	5	1	7	....	....	....	....	....	....	....	....	....	....	78
June 5....	8	15	46	....	7	1	2	7	....	1	....	....	....	2	....	....	....	....	....	....	89
12....	8	15	21	1	6	....	6	5	....	4	....	1	....	1	....	....	....	....	....	....	68
19....	8	15	18	....	1	1	14	3	1	2	....	....	1	4	1	....	....	....	....	....	69
26....	6	8	27	1	8	1	6	13	1	1	....	....	....	....	....	....	....	....	....	....	72
July 3....	5	12	15	....	5	2	1	5	....	1	....	2	....	....	....	....	....	....	....	....	48
10....	6	4	16	1	9	2	5	9	....	1	....	....	....	2	....	1	....	....	....	....	56
17....	5	3	9	1	8	1	....	3	2	1	....	....	....	1	....	....	....	....	....	....	34
24....	....	10	9	....	7	1	2	1	....	4	....	2	....	....	1	....	....	....	....	....	37
31....	7	2	8	....	5	1	1	1	2	....	....	....	....	....	....	....	....	....	....	....	27

TABLE D, 1915—Continued

		Diphtheria	Scarlet Fever	Measles	Typhoid Fever	Pulmonary Tuberculosis	Other Forms Tuberculosis	Chicken Pox	Whooping Cough	Ophthalmia Neonatorum	Mumps	Trachoma	Septic Sore Throat	Cerebro-Spinal Meningitis	German Measles	Suppurative Conjunctivitis	Malaria	Dog-bite requiring Anti-rabic Treat'm't	Anterior Poliomyelitis	Tetanus	Dysentery Amebic & Bacillary	Totals
August	7....	3	9	3	3	10	....	1	1	....	2	....	....	....	....	1	....	....	....	....	....	33
	14....	4	5	....	1	5	....	....	7	1	1	....	....	....	....	....	....	4	....	....	....	28
	21....	5	5	....	....	4	1	1	4	3	1	....	....	....	....	....	....	2	....	....	....	26
	28....	2	9	2	3	7	....	....	2	1	....	....	....	....	....	....	....	....	1	1	....	28
September	4....	1	3	2	....	7	....	1	8	1	....	....	....	....	....	....	....	....	....	....	....	23
	11....	2	4	1	2	3	1	....	9	1	....	....	....	....	....	....	....	....	....	....	1	24
	18....	9	4	....	1	2	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	18
	25....	3	6	1	....	9	....	....	14	....	1	....	....	....	....	....	....	....	....	....	....	34
October	2....	8	4	....	2	7	....	....	9	2	1	....	2	....	....	....	....	....	....	....	....	35
	9....	8	8	....	3	9	1	....	10	....	....	....	....	....	....	....	....	....	....	....	....	39
	16....	2	3	....	1	2	2	1	9	1	1	....	....	....	....	1	....	....	....	....	....	23
	23....	4	2	....	....	6	....	7	8	....	1	....	....	....	....	....	....	....	....	....	....	28
	30....	9	5	1	1	3	2	2	9	1	2	....	1	....	....	....	....	....	....	....	....	35
November	6....	8	2	....	1	3	....	9	4	1	1	....	....	....	....	....	....	....	....	....	....	29
	13....	8	3	....	1	....	....	5	3	....	1	....	1	....	....	1	....	....	....	....	....	21
	20....	6	3	4	1	1	1	3	15	1	2	....	1	....	....	....	....	....	....	....	....	38
	27....	11	4	....	1	4	3	8	17	....	1	....	....	....	....	1	....	....	....	....	....	49
December	4....	13	5	1	....	3	....	11	9	1	1	....	....	....	....	....	....	....	....	....	....	46
	11....	3	5	1	....	3	....	12	14	....	3	....	....	....	....	....	....	....	....	....	1	40
	18....	3	5	1	....	4	2	10	18	4	5	....	....	....	....	....	....	....	....	....	....	50
	25....	5	5	4	....	7	....	14	17	....							....	....	....	....	....	57
Dec. 26, 27, 28, 29, 30, 31....		17	12	1	....	5	....	3	10	1	6	....	....	....	....	....	....	....	....	....	....	55
Totals	.....	358	379	871	35	292	41	266	295	55	124	1	19	2	22	7	1	6	1	1	2	2778

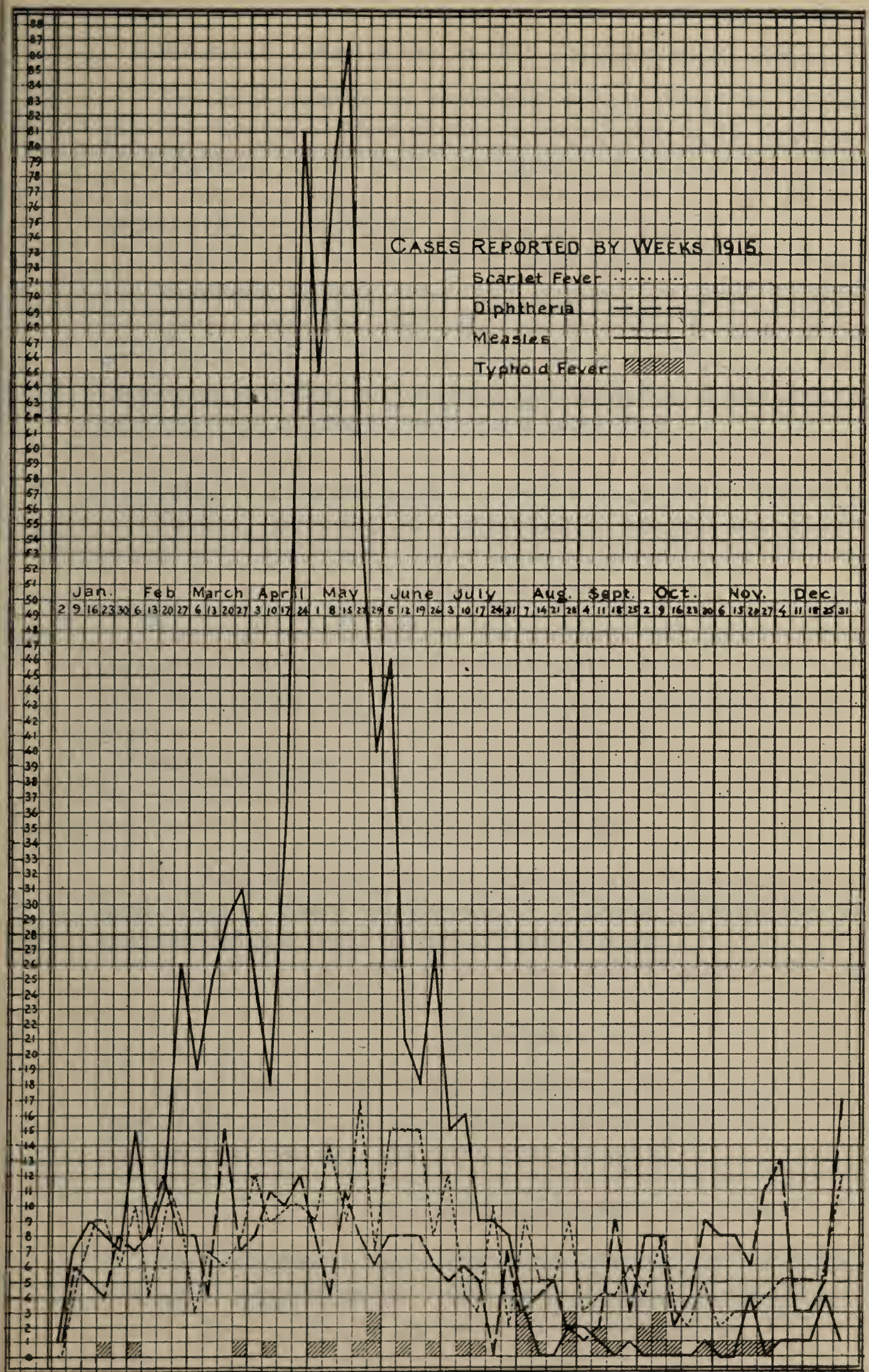
TABLE E—1915

	Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec,	Totals
DIPHTHERIA	1	....	1	3	3	2	5	1	1	6	4	4	....	30
	2	2	3	3	3	4	3	1	2	2	3	2	8	36
	3	2	5	1	5	8	5	8	4	1	1	5	4	49
	4	1	5	8	2	1	2	1	4	...	2	1	1	28
	5	....	....	1	4	4	2	1	1	2	....	...	....	15
	6	1	8	1	8	2	2	3	1	2	2	7	3	40
	7	6	4	8	8	2	2	1	1	....	1	7	7	47
	8	2	2	2	1	2	7	2	....	2	2	3	9	34
	9	4	3	4	5	5	3	1	...	3	6	4	2	40
	10	4	1	2	....	....	....	1	1	2	1	2	1	15
	11	2	3	4	5	1	1	1	....	...	3	3	1	24
	Totals	24	35	37	44	31	32	21	15	20	25	38	36	358
SCARLET FEVER	1	2	....	1	1	1	....	1	1	2	2	...	....	11
	2	1	....	....	3	1	3	3	9	2	3	...	2	27
	3	4	1	2	5	2	12	4	11	1	4	...	2	48
	4	2	2	....	3	3	10	1	....	...	....	...	2	23
	5	....	1	1	1	3	3	1	1	1	....	...	....	12
	6	4	3	4	2	7	11	3	2	7	2	2	2	49
	7	4	6	5	8	5	10	4	5	3	3	2	1	56
	8	2	5	6	3	10	3	3	1	2	....	2	9	46
	9	8	16	5	9	8	1	...	....	...	1	1	4	53
	10	2	....	1	1	4	4	...	....	...	....	1	5	18
	11	....	....	6	6	4	7	....	1	...	3	5	4	36
	Totals	29	34	31	42	48	64	20	31	18	18	13	31	379
MEASLES	1	2	....	3	1	5	7	10	....	...	....	1	....	29
	2	....	....	2	5	11	18	9	....	...	....	...	1	46
	3	19	20	26	11	14	17	2	....	...	....	...	1	110
	4	3	15	26	30	28	13	2	2	...	....	1	3	123
	5	....	3	9	9	15	17	5	....	...	....	...	....	58
	6	3	7	9	39	36	11	3	2	...	....	2	....	112
	7	....	....	6	30	36	7	2	1	2	1	...	1	86
	8	....	....	5	10	34	11	...	....	...	....	...	1	61
	9	....	2	9	7	17	6	3	1	...	....	...	....	45
	10	4	11	9	6	37	6	...	....	...	....	...	....	73
	11	1	2	18	49	36	11	9	....	1	....	...	1	128
	Totals	32	60	122	197	269	124	45	6	3	1	4	8	871
TYPHOID FEVER	1	....	....	....	....	2	....	...	1	...	....	1	....	4
	2	....	....	....	1	....	1	...	1	...	1	...	....	4
	3	1	....	....	....	....	....	1	....	1	....	...	....	3
	4	....	....	....	....	....	....	...	....	...	....	1	....	1
	5	....	....	....	....	....	....	...	2	...	2	...	....	4
	6	....	....	....	....	....	....	...	....	2	....	...	....	2
	7	....	....	....	....	1	....	...	1	...	....	1	....	3
	8	....	....	....	1	....	....	...	1	...	....	1	....	3
	9	1	....	....	....	1	....	...	....	...	2	...	....	4
	10	....	....	1	....	1	....	...	....	...	....	...	....	2
	11	....	....	....	....	....	1	1	1	1	1	...	....	5
	Totals	2	....	1	2	5	2	2	7	4	6	4	....	35

TABLE E—.1915.—(Continued.)

	Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec,	Totals
WHOOPING COUGH	1	....	...	1	....	....	2	...	1	3	2	3	4	16
	2	....	....	....	....	1	....	...	1	...	2	6	7	17
	3	6	...	....	1	4	10	6	3	2	5	1	9	47
	4	1	2	1	....	9	....	1	2	3	16	4	10	49
	5	1	....	....	....	....	1	1	1	7	....	1	1	13
	6	....	1	1	1	8	7	5	5	3	6	6	9	52
	7	....	1	8	....	2	8	.. 4	3	1	2	2	11	42
	8	....	....	....	....	....	....	...	....	11	4	9	5	29
	9	....	1	1	....	....	....	...	....	4	....	1	5	12
	10	....	....	....	....	....	....	...	....	...	....	...	....	.....
	11	....	....	....	....	....	2	...	1	...	2	9	4	18
	Totals	8	5	12	2	24	30	17	17	34	39	42	65	295
CHICKEN POX	1	3	1	....	3	1	3	1	....	...	....	...	....	12
	2	2	....	....	....	1	2	1	....	...	....	...	1	7
	3	6	3	3	6	3	3	...	2	1	1	2	....	30
	4	2	6	6	1	4	10	1	....	...	....	2	1	33
	5	1	....	1	2	1	....	3	....	....	1	3	10	22
	6	2	....	3	....	2	8	2	....	...	....	8	6	31
	7	6	1	3	....	....	1	....	1	....	....	9	6	27
	8	6	....	....	4	....	....	...	....	...	6	4	5	25
	9	2	5	4	12	9	1	...	....	...	2	1	3	39
	10	9	....	1	6	4	....	...	....	...	....	2	2	24
	11	5	....	....	....	....	....	1	....	...	....	1	9	16
	Totals	44	16	21	34	25	28	9	3	1	10	32	43	266
TUBERCULOSIS (All Forms)	1	5	2	3	1	2	....	4	2	1	3	2	1	26
	2	1	3	2	1	....	1	4	2	1	2	...	2	19
	3	2	5	8	8	4	9	3	9	4	3	2	2	59
	4	4	1	3	6	....	2	4	5	4	3	5	5	42
	5	....	5	4	1	1	2	2	2	4	1	1	....	23
	6	3	3	3	4	4	7	7	2	4	2	1	2	42
	7	1	3	2	5	4	2	3	1	3	4	...	4	32
	8	2	....	2	2	2	1	4	2	1	....	1	1	18
	9	2	3	4	1	....	2	2	....	...	5	...	2	21
	10	1	3	....	2	3	1	3	2	...	1	...	1	17
	11	7	4	4	....	4	2	1	3	2	4	2	1	34
	Totals	28	32	35	31	24	29	37	30	24	27	14	21	333

		Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Totals
Diphtheria	M	7	10	17	13	16	63	15	7	8	4	.....	.....	.....	.....	.....	160
	F	4	12	17	24	14	80	24	4	12	5	1	1	.....	.....	.....	198
	P	11	22	34	37	30	143	39	11	20	9	1	1	.....	.....	.....	358
Scarlet Fever	M	.....	4	13	12	21	71	22	13	14	2	.....	1	.....	.....	.....	173
	F	.....	4	11	9	13	105	39	7	12	6	.....	.....	.....	.....	.....	206
	P	.....	8	24	21	34	176	61	20	26	8	.....	1	.....	.....	.....	379
Measles	M	15	30	43	48	60	216	11	5	12	4	1	.....	.....	.....	.....	445
	F	22	27	46	57	54	189	6	5	15	2	2	1	.....	.....	.....	426
	P	37	57	89	105	114	405	17	10	27	6	3	1	.....	.....	.....	871
Chicken Pox	M	9	5	8	6	11	63	8	.....	4	1	.....	1	.....	.....	.....	116
	F	7	9	12	13	13	77	9	3	5	1	1	.....	.....	.....	.....	150
	P	16	14	20	19	24	140	17	3	9	2	1	1	.....	.....	.....	266
Whooping Cough	M	21	11	18	11	18	47	5	.....	.....	.....	.....	.....	.....	.....	.....	131
	F	17	18	20	15	23	60	9	.....	2	.....	.....	.....	.....	.....	.....	164
	P	38	29	38	26	41	107	14	.....	2	.....	.....	.....	.....	.....	.....	295
Mumps	M	.....	1	1	2	3	38	3	9	10	2	.....	.....	.....	.....	.....	69
	F	.....	2	3	3	3	29	5	4	3	2	.....	1	.....	.....	.....	55
	P	.....	3	4	5	6	67	8	13	13	4	.....	1	.....	.....	.....	124
German Measles	M	.....	1	.....	.....	3	2	1	1	1	.....	.....	.....	.....	.....	.....	9
	F	.....	.....	1	1	.....	5	4	2	.....	.....	.....	.....	.....	.....	.....	13
	P	.....	1	1	1	3	7	5	3	1	.....	.....	.....	.....	.....	.....	22
Typhoid Fever	M	.....	.....	.....	.....	.....	1	2	3	11	2	2	1	.....	.....	.....	22
	F	.....	.....	.....	.....	.....	.....	2	3	6	2	.....	.....	.....	.....	.....	13
	P	.....	.....	.....	.....	.....	1	4	6	17	4	2	1	.....	.....	.....	35
Pulmonary Tuberculosis	M	1	1	1	1	3	4	4	9	40	49	31	14	6	3	.....	167
	F	1	1	.....	.....	.....	5	.....	17	50	31	9	8	2	.....	1	125
	P	2	2	1	1	3	9	4	26	90	80	40	22	8	3	1	292
Anterior Poliomyelitis	M	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
	F	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
	P	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Cerebro Spinal Meningitis	M	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	F	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
	P	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2
Septic Sore Throat	M	.....	.....	.....	1	.....	3	.....	2	3	1	.....	.....	.....	.....	.....	10
	F	.....	.....	.....	.....	.....	2	1	1	3	.....	1	.....	1	.....	.....	9
	P	.....	.....	.....	1	.....	5	1	3	6	1	1	.....	1	.....	.....	19


CASES REPORTED BY WEEKS 1915.
Scarlet Fever
Diphtheria
Measles
Typhoid Fever
Jan. Feb March April May June July Aug. Sept. Oct. Nov. Dec
2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24 31 7 14 21 28 4 11 18 25 2 9 16 23 30 6 13 20 27 4 11 18 25 31

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

The total number of reportable disease shows an increase of 464 over last year. Most of this increase is due to the larger number of diphtheria, scarlet fever, and measles cases over the number of these diseases reported in 1914. There are also several diseases which were not reportable previous to this year.

Table B gives the number of cases reported and the death rates for diphtheria, scarlet fever and measles, corrected according to the figures given by the latest census. The footnote shows the actual death rate for these diseases, that is considering the deaths in Cambridge including non-residents and excluding those dying outside of Cambridge although their homes were here.

Table D gives the cases of diseases as reported each week.

Table E gives the cases as reported by wards each month.

Table F gives the cases according to age and sex distribution.

DIPHTHERIA.

The total number of cases for 1915 was 358, an increase of 125 cases over last year. The disease seemed to be of a more malignant type and consequently the death rate was considerably higher than usual.

206 or 57.5 per cent. of the 358 cases went to the hospital.

SCARLET FEVER.

We had 47 more cases of scarlet fever this year than last, a total of 379. There was no serious outbreak although the number reported did not begin to fall off until August.

199 or 52.5 per cent. of the cases were treated in the hospital.

MEASLES.

Up to July we had a large number of cases of measles with the peak of the wave in April and May as seems to be usual. The total for the year was 871, 168 more than in 1914.

TYPHOID FEVER.

We always have been fortunate in the fact that we never have had much typhoid fever. This year, however, establishes a new record. There were but 35 cases, 15 less than the lowest number in

any previous year since the record, started in 1879, has been kept. Not only was the number of cases lower, but also the death rate per thousand living, and the case death rate.

These 35 cases were quite widely distributed throughout the year. 14 or 40 per cent. of the cases were sent to the hospital.

TUBERCULOSIS.

Twenty-three more cases of all forms of tuberculosis were reported this year than last. There were 333 of which 292 were pulmonary and 41 of some other type. This means 39 more cases of lung tuberculosis reported this year than in 1914, but 16 fewer cases of the other forms.

Of the 71 deaths in the city from the disease, of persons who did not live here, all were in hospitals and all were pulmonary. The fact that we have large accommodation for tuberculosis cases in the city, to which many non-residents are sent, accounts for our high death rate from tuberculosis and tends to prevent a favorable comparison with other cities.

OTHER REPORTABLE DISEASES.

The number of other reportable diseases was as follows:

Chicken pox	266	81 less than 1914
Whooping cough	295	3 more than 1914
Anterior poliomyelitis	1	2 less than 1914
Epidemic cerebro spinal meningitis	2	3 less than 1914
Ophthalmia Neonatorum	55	27 more than 1914
Tetanus	1	1 more than 1914
Trachoma	1	1 more than 1914
German measles	22	See foot note.
Suppurative conjunctivitis	7	
Septic sore throat	19	
Malaria	1	
Dog-bite (requiring anti-rabic treatment)	6	
Dysentery (amebic and bacillary)	2	
Mumps	124	

BRADFORD H. PEIRCE, M.D.,
Medical Inspector.

German Measles was declared by the State Department of Health to be a reportable disease on June 1, 1914; and Suppurative Conjunctivitis, Septic Sore Throat, Malaria, Dog-bite (requiring anti-rabic treatment), Dysentery (amebic and bacillary), and Mumps, on September 22, 1914.

BACTERIOLOGICAL LABORATORY.

The following report of the Bacteriological Laboratory is hereby respectfully submitted:

The tables submitted below show in detail the number and sort of examinations made during the year 1915. The table with the heading "other examinations" covers the examinations for malaria, ophthalmia neonatorum, pus, etc. The total number of examinations is 618 more than in the year preceding. The large increase in the laboratory work came in the examinations of throat cultures. 657 more throat cultures were examined in 1915 than in 1914. There were reported to the Board during the year 358 cases of diphtheria, 125 more than last year, and of that number, 251 or 70 per cent. were confirmed by positive cultures in this laboratory. Last year the percentage of positive findings was even greater, due to the fact probably that daily cultures were taken at the diphtheria hospital in all clinical cases of diphtheria which at the first examination gave a negative diagnosis. The diphtheria hospital was discontinued in July.

There was still a decrease in the number of "no growths"; 11 during the year against 13 in 1914 and 43 in 1913. Without a doubt the physicians in the city are exercising more care than formerly in selecting culture media which are not too dry to obtain a growth on incubation.

The number of casese of typhoid fever reported during the year was 35—this was 16 less than 1914. Of these 35, 10 or about 30 per cent. gave a positive widal test. Again, there is still a tendency to send in blood for widal reaction too early in the disease.

There was a slight increase in the examinations for tubercle bacilli; 801 against 792 in 1914.

The total number of examinations was 3092.

DIPHTHERIA.

	POSITIVE		NEGATIVE			
	Diagnosis	Release	Diagnosis	Release	No growth	Total
January	21	24	88	72	0	205
February	27	17	101	53	1	199
March	22	35	89	117	1	264
April	36	32	116	87	2	273
May	31	39	102	119	0	291
June	20	20	79	84	1	204
July	11	8	68	60	0	147
August	9	0	41	17	0	67
September	14	2	41	21	2	80
October	13	5	51	37	3	109
November	23	6	68	21	1	119
December	24	3	108	27	0	162
Totals	251	191	952	715	11	2120

	TUBERCULOSIS			TYPHOID				
	Positive	Negative	Total	Positive	Negative	Total	Other Examinations	Total
January	27	58	85	1	5	6	0	91
February	27	24	51	1	12	13	0	64
March	23	60	83	0	7	7	1	91
April	26	68	94	0	15	15	3	112
May	30	54	84	3	13	16	1	101
June	19	40	59	0	12	12	0	71
July	27	29	56	1	13	14	2	72
August	19	40	59	0	12	12	1	72
September	20	33	53	1	15	16	3	72
October	18	49	67	2	9	11	3	81
November	8	47	55	1	10	11	6	72
December	15	50	65	0	8	8	0	73
Totals	259	552	811	10	131	141	20	972

WALTER C. FEELEY, M.D.,
Bacteriologist.

INSPECTOR OF MILK AND VINEGAR.

I respectfully submit the following report from the Department of Milk and Vinegar for the year 1915.

The number of samples collected and examined was as follows:

Number of samples from wagons	1,175
" " " " stores	1,577
" " " brought in by milkmen and citizens	181
" " " examined bacteriologically	635
Total milk samples	3,568
Number of vinegar samples	60
" " butter samples	156
" " ice cream samples	30
" " sediment tests on milk	130
" " cream samples	27
Total samples examined	3,971

The total number of samples examined last year was almost four hundred more than the year preceding, the increase being chiefly in the number of samples taken from stores.

Special attention was given to store milk for the purpose of determining the value of the bottle regulation put into operation in 1914. Store milk last year averaged 3.64 per cent. fat, and the year preceding 3.37 per cent. fat, which shows very clearly what the bottle regulation has accomplished for this milk.

The average percentage of fat and solids in wagon milk last year was practically the same as the year preceding: fat content, 3.64 per cent.; solids, 12.43 per cent.

There was a larger number of licenses issued this year, both to dealers and stores—81 dealers applying and 600 storekeepers. One dealer was refused a license until an adequate sterilizing and washing equipment was installed; and likewise, one cow permit was refused because the milk was put up in a cellar within a few feet of a water-closet.

Our notice stating that all licenses expire June 1st, and that applications for new ones must be taken out at once, was met with a better response this year than previously, possibly due to the Department's notice of last year that delinquency in this matter would be dealt with more harshly in the future.

Approximately 8,000 gallons of milk are consumed in Cam-

bridge each day, and little more than half the supply is hauled from without the State by 17 dealers—the remaining 64 dealers handling in-State milk entirely.

Sixty-four per cent. of the total supply is pasteurized by 19 dealers, the remaining 62 dealers who do not pasteurize handling only 36 per cent. While the total number of dealers pasteurizing appears small as compared with the number not pasteurizing, yet it is much larger than it was two years ago, as a number of the smaller dealers have since that time installed pasteurizing plants. Despite this disparity in the number of dealers actually engaged in protecting their supply, it is gratifying to realize that almost two thirds of the milk now consumed in the city is pasteurized, and it is to be hoped that the remaining 62 dealers will soon fall in line and accept the responsibility of safeguarding their product in a manner similar to their more progressive competitors.

The Department has co-operated with all dealers seeking advice as to the proper and best methods of pasteurizing, and it is pleasing to note that most dealers recently installing outfits have adopted the holding method with compartments not too large to insure heating all the milk evenly.

The majority of the complaints brought to court during the year was for selling milk below the standard, and in all cases the defendants were found guilty and fined, except one in which the court found that the milk was not for sale, despite the fact that it was exposed and standing alongside of that which was for sale.

A growing opinion seems to prevail, among those who have to do with the subject of milk inspection, that prosecution accomplishes little for the public in the way of insuring a clean and rich milk, but that education of the dairyman and co-operation with the dealers produce a supply which meets much more closely the standards and requirements of the law.

Unfortunately the milk legislation of the past few years, and particularly Act 744 of 1914, has done little to correct conditions influencing the supply of a city the size of Cambridge.

The Act above mentioned calls for the issuance of a permit, dependent upon the inspection of the premises by the local Department, to all dairymen, no matter where their residence, whose milk reaches Cambridge through one channel or another. The impracticability of such an Act is realized when it is stated that one dealer alone sends to this Department the names of over three

thousand dairymen, scattered all over New England and New York. The same dealer is obliged to send lists to one or more cities adjoining Cambridge, because he has no way of knowing to which city the milk of the individual dairyman goes, and these municipalities are likewise called upon to inspect all the dairies mentioned on the list—hence the endeavor at the present moment to remove this Statute from the books and substitute an Act which still provides for an inspection of dairies, but prevents the duplication of work now going on, by placing the responsibility for the work upon some central authority. At a recent meeting of the Massachusetts Milk Inspection Association, where almost one hundred were present, but ten inspectors stated that their cities or towns were attempting to live up to the requirements of this Act as it now stands, and the reason for the others not complying was, in most instances, the great expense entailed, and the apparent waste of money and effort.

One hundred thirty samples of milk were examined for visible dirt, about one third of which revealed a sediment of considerable quantity. This is, however, a better showing than in previous years, and indication in some measure the co-operation of the dealers in assisting the office in its campaign for the small-mouth milk-pail. At a local dairy where the counts were running high, the Department insisted upon the use of a smaller mouthed milk-pail, and to prove to the dairymen its value, the collector took samples on the same day from milk collected in an open milk-pail, and from milk collected in a new pail. The counts showed a difference of over 40,000 in favor of the new pail. Without further delay, the owner immediately installed other apparatus suggested by the office, and is today co-operating in every way possible. For such demonstration, dealers should make use of the laboratory, and thus help to remove at its source contamination which is productive of disease.

The usual number of complaints was investigated by the office, including dirty stores, restaurants and ice cream parlors, foreign bodies in milk, foul odors to milk and dirty bottles. Citizens would assist the work of the office by reporting the names and addresses of places where milk against which they have a complaint has been purchased rather than by sending the sample to the laboratory. Such samples have usually been opened before reaching the laboratory, or at least, have passed through several hands since delivery by the milkman or storekeeper, and as such, would not have the

same standing in court as a sample seized by the collector of the Department in strict accordance with the law.

At the Milk Show held at the close of the year at Horticultural Hall, the Department entered for Cambridge twelve samples seized from as many different dealers. The Cambridge samples averaged 80 per cent., and the four following dealers received blue ribbons from the Agricultural Station at Amherst, Mass.:

C. W. Andrews.....Waltham
A. H. Andrews.....Watertown
H. Swenson.....Lexington
So. Lincoln Dairy.....So. Lincoln

Many Boards of Health offered individual prizes to the dealer exhibiting the best samples from their respective cities. This is a practice which this Department feels our own Board might well follow in the future, as it is productive of that sort of competition which raises the standard of our entire supply. Likewise, because of the obvious benefits from association with the leading men of this country interested in the milk problem, I recommend that this Department be represented by membership in the International Milk Inspectors' Association, and that some member of the Department attend its yearly convention.

BACTERIOLOGY.

Six hundred seventy samples were seized and examined for bacteria. Approximately 80 per cent. of the supply shows a count of less than 500,000, but no more than 50 per cent. less than 100,000 bacteria to the cubic centimeter. By far a greater number of dealers should be selling a milk containing less than 100,000, despite the regulation which allows not more than 500,000, and this particularly in view of the fact that pasteurization is being practiced on such a large scale. This is greatly due to lack of sufficient icing after the milk is put up for delivery. Pasteurization is of little use in reducing counts if the milk is not properly iced on the teams. This neglect is to be attributed to carelessness rather than lack of intelligence, and will in the future be dealt with drastically. Unfortunately there exists no statute which prohibits the sale of milk with high counts, but the license of these dealers may be revoked, and such practice for the future, I recommend, despite its seeming harshness.

But four samples were found during the year to contain pus

and streptococci, the presence of which in milk indicates usually a gargety condition in one or more cows. From such contamination there may arise many cases of sickness, the number depending greatly upon the virulence of the streptococci . In all the cases the dealers co-operated with the Department and assisted greatly in ferreting out the cow or cows infecting the supply.

The following dealers averaged for the year a count lower than 100,000:

A. H. Andrews	Watertown, Mass.
F. S. Barnard	Somerville, Mass.
C. H. Cutler	Lexington, Mass.
Charles T. Jennings	Cambridge, Mass.
N. Pulero	Waverly, Mass.
South Lincoln Dairy	So. Lincoln, Mass.
Walker Gordon	Boston, Mass.
Turner Centre Co.	Boston, Mass.
C. W. Andrews	Waltham, Mass.

It is only fair to mention, however, that the names of many other dealers might have appeared in this list if it had not been for a single high count, which brought their average above 100,000. The public should avail themselves on a large scale of the benefits to be derived from consulting the records of this office, and physicians in particular, as in this way accurate information may be had as to where, and from whom, good milk can be purchased—otherwise the newspaper advertisements must constitute the source of the public's information, and much of this is misleading. To counteract the influence of such advertising, I would recommend that the Department publish in the local papers monthly a report of the findings of this laboratory.

VINEGAR.

A larger amount of work was done this year on vinegar; 60 samples were collected and examined. No violations of the law were discovered, all the samples containing a larger amount of acids and solids than required by the statute.

BUTTER AND OLEOMARGARINE.

Fourteen dealers applied for oleomargarine licenses—an increase of five over the number of last year. Apparently the consumption of oleomargarine is on the increase, and wisely so, as it

has long been recognized that in point of digestibility, it is the equal of butter, and much greater in nutritional value than poor butter. The cheapness, it would seem, should make it appeal to a larger number as a valuable substitute for butter.

One hundred fifty-six samples of butter were tested, and none found to be other than as represented. There is a large amount of renovated butter served in restaurants—a fact which customers are usually ignorant of, as the law requires no placarding informing them of this fact.

ICE CREAM.

Thirty samples of ice cream were examined for their fat content. All were found to contain the required seven per cent. of fat.

MODIFIED MILK.

Two more stations than the year previous, making seven in all were opened for the distribution of modified milk. A publicity campaign on a moderate scale was started in the late spring with the idea in view of interesting more people in this work, and as an added inducement, it was deemed advisable to organize weekly clinics at the various stations where the mothers might bring their babies for examination and advice. This is the first summer that infants have had the benefit of the advice of medical men, who have determined absolutely what modifications should be dispensed.

The results obtained from the added efforts put into the work have been very gratifying. There was almost a 50 per cent. increase in the number of babies reached this year as against the year preceding.

The following table records what the Department has accomplished in the past five years:

	1911	1914	1915
Number of stations	6	5	7
" " days open	91	94	82
" " clinics	0	0	7
Total number of babies fed	125	135	196
Largest number fed in one day	68	82	134
" " of feedings in one day	462	525	805
Total number of feedings sent out	30,232	32,911	47,525
Amount of appropriation	$1,200.00	$1,400.00	$1,800.00

The remarkable increase in the number of feedings sent out and in the number of babies reached as shown by the figures in the last column, and this, despite the fact the stations were run a fewer number of days, indicates the demand there is for this kind

of work, and how the public responds to the stimulus of a little campaigning. It might be mentioned that it was necessary to close the stations rather abruptly and earlier than usual on account of no further available funds, and this at a time when all stations were running to full capacity. Consequently, all the infants receiving feedings at that time were shut off from their proper form of nourishment, and the mother left without any further instruction, to obtain for the children, whatever they deemed advisable.

The occurrence of such an unfortunate situation at the end of each summer has led me to suggest a totally different plan of organization, which will provide for the care of the infant in a much more intelligent manner.

Despite the remarkable showing of last summer, as a result of increased effort put into the work, yet for only 82 of the 365 days of the year, a very limited number of babies, when you realize that over 2,500 are born in Cambridge every year, actually partook of the benefits of this work.

In the light of the foregoing, and since the Department directs its efforts merely to the matter of supplying a clean and properly modified food to the infant, it would seem that two nurses employed by the Board on full time could accomplish, through methods of instruction, the same work on a much larger scale, and with more lasting results. Such an organization without any greater expenditure of money, and depending for its success upon a system of instruction to mothers in the subject of Child Hygiene, would enable the Department to reach all the new-born of the city, and to provide for their care during the whole year.

This method of dealing with the subject of baby welfare, I most heartily recommend for adoption, and trust that the Board will see fit to put it into operation during the forthcoming year.

For the assistance rendered during the summer by Miss Rena Schlesinger in directing the Modified Milk Laboratory, and by the Visiting Nursing Association in dispensing the milk, and for the co-operation of the following physicians in directing the clinics:

JOSEPH M. WADDEN, WALTER C. FEELEY,
JOHN E. DWYER, JR., JOHN P. NELLIGAN,
F. B. M. CADY, JEREMIAH J. BOYLE,
F. N. BRESNIHAN,

the Department is very grateful.

WILLIAM A. NOONAN, M. D.,
Inspector of Milk and Vinegar.

DIPHTHERIA HOSPITAL.

The undersigned herewith submits the report of the Diphtheria Hospital from January 1, 1915, to August 1, 1915.

On January 1, 1915, there remained in the hospital from the preceding year fourteen patients, nine females and five males.

During the period of time the hospital was open from January 1, to August 1, 1915, one hundred thirty-two patients were admitted; sixty-three females, sixty-nine males. The ages of these cases were as follows:

Over 21 years of age	7
Between 14 and 21 years	4
Between 5 and 14 years	65
Under 5 years of age	56

Cultures from the total number of cases gave the following results: one hundred seventeen showed the presence of the diphtheria bacillus; fifteen cases proved negative. Of the latter, seven were laryngeal types of the infection, and the remaining eight were, clinically, well marked cases of diphtheria.

During the above period one case of measles was found in the ward, and seven cases of scarlet fever developed. The cases of scarlet fever were, as soon as discovered, removed to the Homeopathic Hospital in Brighton.

One operation was performed for septic glands of the neck. This patient died later. There were thirty-two laryngeal cases admitted, necessitating thirteen intubations, five of which resulted in death. The remaining eight cases made satisfactory recoveries.

The total number of deaths was 15; mortality 10.27 per cent.

The average duration of stay for all cases was 19.9 days. The longest period of stay of any one case was fifty-five days; shortest, one hour.

The duration of stay in the hospital of all fatal cases was as follows:

1 hour	1 case
11 hours	1 "
13 hours	1 "
2 days	3 cases
4 days	1 case
8 days	2 cases
9 days	1 case
10 days	1 "
14 days	1 "
18 days	1 "
33 days	1 "
36 days	1 "

The above report marks the final page in the history of this institution. During a period of sixteen years, since 1899, when the building was purchased by the City Government, and converted into a hospital for the care of diphtheria, it has served its purpose satisfactorily. However, time has begun to show its affect on the old structure, and extensive repairs would be necessary in order to put the building in proper condition for further service. Therefore, it has been deemed expedient to close the hospital, and remove all cases of diphtheria to the Homeopathic Hospital in Brighton, where provisions have been made for the care of the patients at a greatly reduced expense.

PATRICK J. FLEMING, M.D.

TUBERCULOSIS HOSPITAL.

I respectfully submit the following report of the work done at the Cambridge Tuberculosis Hospital during the year 1915.

On January 1, 1915, there remained in the hospital from the previous year 64 cases. During the present year we admitted 165 new cases and readmitted 41 cases, making a total of 270 cases treated during the year.

RESIDENTS.

Of the 64 cases remaining from 1914, 1 was admitted in 1909, 1 in 1910, 4 in 1911, 13 in 1913, 45 in 1914.

1909. One; patient moderately advanced with positive sputa, remaining in hospital most of the time.

1910. One; patient showed no marked improvement, with positive sputa; continually at hospital.

1911. Four: two moderately advanced cases with positive sputa; two advanced. All showed a slight improvement.

1913. Thirteen; all except one, advanced cases with positive sputa. Of these seven died; two were discharged improved; four are still resident.

1914. Forty-five cases; five were incipient cases. Three are resident still showing marked improvement. The other two were arrested, and were discharged for light work.

Four moderately advanced cases; three stayed about three months and returned home much improved. One was transferred to Rutland.

Thirty-six; advanced cases. Ten were fairly elderly patients, showing a gradual loss of strength. Fourteen left to go to their homes; one died ten days after leaving. Twelve cases after remaining various periods of time failed to improve.

READMISSIONS.

Forty-one cases were readmitted this year, as against thirty-three of last year. Two were patients of 1908, two of 1909, four of 1911, two of 1912, seven of 1913, fifteen of 1914, and nine of 1915.

Incipient, three; one of 1913, one of 1914, and one of 1915.

The patient of 1913 showed marked improvement, also the patient of 1915. The one of 1914 was a spinal case, and was discharged very much improved at the end of nine months.

Moderately advanced, eleven; one of 1908, two of 1909, one of 1910, one of 1912, one of 1913, four of 1914, and one of 1915. One was previously admitted as an incipient case, returned after an absence of four years in a run-down condition. One was discharged much improved, and returned four years later, much worse and died twenty-nine days later. One was discharged for alcoholism. Two are still resident much improved. One was discharged improved and returned later somewhat run down. One returned in a run down condition, stayed one day and left contrary to advice. The other four were discharged with marked improvement and went to work.

Advanced, twenty-seven; one of 1908, three of 1910, two of 1912, five of 1913, eight of 1914 and eight of 1915. Four cases on returning to the hospital after various periods of absence died within ten to thirty days after being readmitted. Two cases left slightly improved. Four were transferred to their homes. Nine cases remained resident and show a gradual improvement. One other case returned with a tubercular kidney and testicle; remained ten days and died. Four cases were discharged greatly improved. One case was discharged for alcoholism. One went home without permission and didn't return. One case was discharged, going to work.

NEW CASES.

During the year we admitted 165 new cases as against 142 last year.

Stages. Seventeen patients were admitted as incipient cases, twenty-nine as moderately advanced, and one hundred sixteen as advanced cases. There were three others; one discharged on day of admission, one left on morning of admission, no examination being made, and the other also left on the day of admission, no lung condition, but a bad tubercular ankle, hip and wrist.

Sex. Ninety-six males and sixty-nine females were admitted as against eighty-four males and fifty-eight females in the year 1914.

Age.

5-10	10-20	20-30	30-40	40-50	50-60	60-70	Unknown
6	19	47	43	28	13	8	1

The highest percentage between twenty and thirty as every year previous.

Social Status. Seventy-four were married; eighty-one were single; ten were widowed.

Nativity. Seventy-five were foreign born; ninety were born in the United States, fifty in Massachusetts, and thirty in Cambridge.

Nationality. The majority of the patients were of Irish descent.

35 American	6 French	2 English
30 Irish American	5 Swedish	2 Lithuanian
19 Irish	5 Portuguese	2 Pole
18 Canadian	3 Armenian	1 French Canadian
11 Negro	3 Finn	1 Italian American
8 Italian	3 Scotch	1 Swedish American
7 Jewish	2 Turk	1 Austrian

Occupation.

43 Housewives	1 Autowasher	1 Tool maker
14 Students	1 Hack driver	1 Shipping clerk
11 Factory workers	1 Dish washer	1 Steam fitter
8 Teamsters	1 Shoemaker	1 Motorman
8 Laborers	1 Milk depot	1 Switchman
8 Machinists	1 Ivory cutter	1 Waitress
5 Clerks	1 Sign painter	1 Waiter
5 Rubber workers	1 Paper box worker	1 Bell boy
4 Dressmakers	1 Brass polisher	1 Fishman
3 Book binders	1 Restaurant worker	1 Road agent
3 Chefs	1 Electrical generator	1 Chauffeur
2 Stenographers	1 Electrotyper	1 Designer
2 Telephone operators	1 Seaman	1 Roofer
2 Painters	1 X-ray photographer	1 Bar tender
2 Printers	1 Tinsmith	1 Janitor
2 Tailors	1 Plumber	1 Trainer
2 City Home	1 Piano maker	1 Elevator boy
2 Barbers	1 Blacksmith	1 Trainman

Source. Forty-nine cases gave a history of one or more cases in the immediate family. Five cases gave a history of contact in some other form.

Distribution of Cases in City Wards. The largest number of cases came from Ward III, the smallest number from Ward X.

Ward	I	II	III	IV	V	VI	VII	VIII	IX	X	XI
Cases	5	11	21	19	8	15	11	12	9	4	13

AVERAGE, HIGHEST AND LOWEST NUMBER OF PATIENTS EACH MONTH

	Aver.	High	Low		Aver.	High	Low
January	66	69	63	July	74	78	70
February	64	67	62	August	70	85	75
March	69	71	66	September	76	84	71
April	71	74	69	October	69	74	65
May	76	79	73	November	68	71	65
June	77	80	75	December	69	73	68

CLINICAL FORMS

Chronic Pulmonary Tuberculosis	154
Acute Pneumonic Phthisis	4
Intestinal Tuberculosis	1
Bone Tuberculosis	4
Left before examined	2

COMPLICATIONS.

Hemorrhage. Sixty-five cases had one or more hemorrhages. One case died of hemorrhage.

Diarrhoea. One case had tubercular enteritis as a complication.

Constipation. One case had chronice constipation.

Meningitis. There were three cases of meningitis as complication.

Laryngitis. Four cases had laryngitis as a complication.

Other Diseases. Other complications were: chronic lead poisoning, 1; pregnancy, 4; chronic alcoholism, 1; ischio-rectal abscess, 2; pleurisy with effusion, 1; mitral regurgitation, 2; nephritis, 1; tubercular knee, 1; tubercular kidney, 1; tubercular testicle, 1; heart complication, 2; tubercular spine, 1; local abscess, 1; salpingitis, 1; empyema, 1; tubercular joints, 1; neuritis, 2; cystitis, 1; asthma, 1; dementia praecox, 1; syphilis, 2; cirrhosis of liver, 2.

Starting Point of the Disease. The left apex was the starting point in forty-four cases, the right apex in seventy-seven cases, the right base in fourteen cases, and the left base in eleven cases.

Sputa. On entrance 93 sputa were positive and 38 were negative.

RESULTS.

Mortality. Fifty-three cases were discharged dead.

Unimproved. Forty-nine cases were discharged unimproved.

Improved. Sixty-seven cases were discharged with disease greatly improved.

Arrested. Three cases were discharged with the disease arrested.

Transferred. Six cases were transferred to Lakeville, one to North Reading, two to the Cambridge Hospital, four to Tewksbury, four to Mattapan, three to Rutland, one to Holy Ghost Hospital, one to home, one to Waltham, one to Worcester, one to Westfield, one to Channing Home.

Resident. Sixty-four remained in the hospital December 31, 1915, as against forty-four cases December 31, 1914.

FELIX F. McGIRR, M.D.

SCHOOL INSPECTION.

Still another year we are getting along with the same number of school physicians and nurses. The lack of a sufficient number of nurses is felt more keenly every year, and until we are allowed more we must work under a great handicap. With the proposed dental clinic for school children we shall need nurses more than ever.

Below is the consolidated report of the school inspectors:

I.	Specific Infectious Diseases:		
	Measles	8	
	Whooping cough	3	
	Mumps	10	
	Chicken pox	22	
	German measles	1	
			44
II.	Diseases of the Oral and Respiratory Tract:		
	Alveolar abscess	4	
	Dental caries	690	
	Acute pharyngitis	3	
	Adenoids	67	
	Enlarged tonsils	117	
	Enlarged tonsils and adenoids	38	
	Acute Tonsillitis	43	
	Tonsillar abscess	2	
	Acute rhinitis	2	
	Chronic rhinitis	2	
	Deviations septum (obstruction)	7	
	Postnasal catarrh	2	
	Acute bronchitis	6	
	Defective speech	3	
			986
III.	Diseases of the Ear:		
	Otitis media	43	
	Imperfect hearing	5	
			48
IV.	Diseases of the Eye:		
	Foreign bodies	4	
	Blepharitis	1	
	Stye	14	
	Abscess lachrymal duct	4	
	Acute conjunctivitis	58	
	Phlyctenular conjunctivitis	2	
	Granular conjunctivitis	9	
	Ulcer of cornea	5	
	Opacity of cornea	4	
	Iritis	2	
	Strabismus	29	
	Imperfect sight	189	
			321

V. Diseases of the Skin:

Acne	6	
Alopecia areata	3	
Dermatitis	16	
Eczema	51	
Furuncle	10	
Herpes simplex	62	
Herpes zoster	2	
Impetigo contagiosa	67	
Pediculosis	355	
Psoriasis	3	
Scabies	12	
Seborrhea	11	
Tinea circinata	15	
Tinea	21	
Urticaria	1	
Verruca	3	
Favus	5	
Lupus	4	
	——	647

VI. Miscellaneous Diseases:

Adenitis	42	
Anemia	7	
Debility and malnutrition	73	
Chorea	14	
Epilepsy	1	
Deformities (spinal)	2	
Deformities (other)	6	
Cretinism	1	
Cleft palate and lip	3	
Sprains	3	
Fractures	1	
Burns and scalds	7	
Wounds and contusions	37	
Abscess and sepsis	49	
Rheumatism	1	
Cardiac diseases	9	
Gastric diseases	7	
Intestinal diseases	4	
Urinary diseases	4	
Paronychia	4	
Asthma	3	
Cold (probably)	48	
Defective attitude	4	
Paralysis	2	
Feeble-minded	9	
Retardation	36	
Cigarette smoker	2	
Alcoholism	1	
Miscellaneous	8	
Dirty	40	
Malingering	7	
Doubtful	18	
No trouble (negative)	327	
	——	780

VII. Miscellaneous Reports:

School visits	29	
General inspections	1,465	
Held for observation	21	
Physical examinations	594	
Re-examinations after exclusion	219	
Vaccinations examined	96	
Work certificates	61	
		2,485
		5,311

BRADFORD H. PEIRCE, M.D.,

Medical Inspector.

REPORT OF THE SCHOOL NURSE.

The school nurse respectfully submits her report for the year January 1st-December 31st, 1915.

As in previous years, the work has been carried on directly under the Board of Health, and in co-operation with the School Department. It is with pleasure we note the increasing correlation of said departments.

On September 8th a third nurse was added to the regular staff, while during the entire school year the Agassiz Parents' Association, in conjunction with the Cambridge Visiting Nursing Association, furnished a nurse to work in specified schools in order to provide regular nursing service. No record of said nurse's work is made in the adjoining report.

All cases requiring a diagnosis were held for the physicians and on their recommendation, suspicious cases, and all children suffering from contagious parasitic disease were excluded, to be later followed to their homes by the nurses. The value of the work from the home end cannot be overestimated, for, only by maintaining the legal right of parent to child, and the full co-operation of home and school can permanent results be attained.

Along the line of preventive medicine a great and far-reaching work is being done by the School Department in providing each year more adequate accommodations for the children suffering from malnutrition. Eighty-six pupils are now registered in the Open-Air Schools. In these schools the curriculum is adapted to the special needs of the children, and, coupled with home supervision by the nurses, the results fully justify the extra expenditure of money for this purpose.

Of necessity, many children whose parents cannot take them for treatment are taken by the nurses, either to private physicians, or clinics, according to the social status of the family and desire of the legal guardians. Two hundred sixty-nine such visits were made during the year.

Each year the field of labor broadens, and many and varied are the duties of the school nurse whose work is largely educational both in school, and home, and based upon a two-fold foundation, the prevention of contagion and disease, and the maintenance of the efficiency of the child's school life. To further this end, by request, talks have been given to various mothers' clubs attached to the kinder-

gartens, while elementary hygiene has been taught to the girls of the Trade School.

It is to be hoped that in the near future another nurse may be added, for, even now, the great field of school nursing is but imperfectly covered.

Thanks are tendered to the members of the School Department, principals and teachers and to the School Inspectors for their unfailing courtesy, and also to the public and private agencies of the city for their ever-ready response to the call for aid in behalf of the children of Cambridge.

HOME CALLS.

Defective vision	200	Tonsillitis	12
Strabisimus	44	Bronchitis	10
Conjunctivitis	13	Tubercular suspect	9
Phlyctenular keratitis	2	Adenitis	16
Granular lids	5	Cervical adenitis	11
Congenital cataract	23	Scrofula	1
Ulcer of cornea	3	Lupus	9
Tarsoptosis	3	Masturbation	2
Potts' disease	3	Epilepsy	7
Scoliosis	4	Nervousness	4
Orthopedic	8	Defective Larnyx	13
Faulty attitude	1	Otitis media	51
Furuncle	5	Alveolar abscess	4
Malnutrition	102	Deviated septum	1
Debility	4	Enlarged turbinates	3
Eczema	7	Nasal obstruction	22
Herpes	1	" catarrh	3
Urticaria	4	Adenoids and tonsils	91
Ringworm	9	Acute laryngitis	2
Impetigo	33	Chronic laryngitis	1
Scabies	12	Eneuresis	5
Favus	4	Stammering	1
Pediculosis	171	Paralysis	1
Flesh wound	3	Chorea	18
Dental caries	110	Retardation	6
Unkempt	1	Indigestion	1
Appendicitis	1	Defective speech	3
Endocarditis	16	Asthma	2
Polypus of ear	3	Diphtheria	2
Mastoiditis	1	Gun shot wound	1
Rheumatism	1	Abscess (ear)	7
Septic finger	3	" (eye lid)	2
Doubtful	29		
Total	1,150		

PAROCHIAL CALLS.

Defective vision	3	Chronic conjunctivitis	1
" heating	3	Contraction, facial muscles	4
Dental caries	2		
Total	13		

TOTALS.

Number of home calls—recorded	1,150
" " " " —unrecorded	140
" " Parochial calls	13
" " children held for inspectors	901
" " " taken for treatment	641
" " " treated at home (nurses)	47
" " visits to clinics	269
" " notes sent	241

Respectfully submitted,

J. M. C. HUME,
School Nurse.

INSPECTOR OF SLAUGHTERING AND PROVISIONS.

The undersigned respectfully submits his report as Inspector of Slaughtering and Provisions for the year ending December 31, 1915.

Veal slaughtered	2,607	
Poultry "	68,720	
Veal condemned	89	
Poultry "	1,215	lbs.

MARKET PRODUCTS CONDEMNED.

Beef	1,674	lbs.
Lamb	207	"
Pork	326	"
Poultry	415	"
Lobsters	513	"
Cod, halibut, etc.	1,438	"
Clams and oysters	5½	gallons
Clams and oysters in shell	3½	bushels

FRUIT CONDEMNED.

Grape fruit	4½	crates
Grapes	41	baskets
White grapes	½	barrel
Cantaloupe melons	12	crates
Pears	5	boxes
Peaches	21	baskets
Strawberries	2½	crates
Oranges	½	box
Cranberries	1	bushel
Raspberries, blackberries and blueberries	161	quarts

VEGETABLES CONDEMNED.

Potatoes	41	bushels
Sweet potatoes	1¾	barrels
Asparagus	1½	bushels
Squash	4	barrels
Spinach and other greens	13	bushels
Celery	84	bunches

MISCELLANEOUS PRODUCTS CONDEMNED.

Canned tomatoes, corn and other vegetables	187	cans
Canned peaches, pears, pineapples, etc.	97	"
Macaroni (mouldy and unfit for food)	12	boxes
Pickles	½	barrel
Eggs	18	dozen
Butter (rancid)	1½	tub

Four persons were complained of at the Third District Court for violating the laws by selling unwholesome food; same were found guilty and fined.

Because of the lack of law enforcing the proper cleansing of soda and ice cream glasses, the condition of these utensils is not good. I would suggest some regulation to obtain improvement therein.

JOSEPH L. JOHNSON,
Inspector of Slaughtering and Provisions.

VIOLATIONS OF REGULATIONS, NUISANCES ABATED, LICENSES GRANTED, ETC.

Water-closets—offensive and defective:	
Filthy bowls	76
Leaking bowls	26
Broken bowls	12
Obstructed soil-pipes	79
Defective soil-pipes	75
" tanks	11
" traps	39
Closets not supplied with running water	109
New closets installed	57
New bowls installed	2
Defective supply-pipes (from tank to bowl)	27
Sinks—offensive and defective (including wash-bowls, bath-tubs, and set-tubs):	
Filthy basins	16
Leaking basins	18
Defective traps	65
" drains	29
Obstructed drains	38
Untrapped drains	47
New sinks installed	8
Obstructed and defective house-drains	47
Offensive cesspools cleaned and removed	30
Offensive privy-vaults removed	3
Defective ice chest connections	7
" lunch cart connections	5
" barber shop connections	7
Wet and damp cellars remedied	81
Water in light wells	2
Stagnant water on premises removed	17
" " in streets and gutters removed	3
Dirty yards cleaned	569
" roofs cleaned	2
" buildings cleaned	34
" light wells cleaned	2
" cellars cleaned	276
" sheds cleaned	8
" stores cleaned	19
" hen-coops cleaned	40
" stables cleaned	28
Uncovered manure pits properly covered	18
Manure pits repaired, and new pits built	12
Manure in yards and lots removed	25
Vacant lots cleaned	35
Defective stable connections, gutters, traps, and drains	11
" " floors repaired	9
Filthy garbage receptacles cleaned	179
" " bins cleaned	14
New garbage receptacles provided—with covers	200
" " " covers provided	107
Dead animals removed	175
Fowl removed from dwelling-houses—(cellars, attics, etc.):	
Number of houses	24
Bakeries cleaned and whitened	7

Unsanitary dwellings vacated	4
" stables vacated	2
" barber-shops vacated	1
Plumbing (peppermint) tests made	30
Stables occupied without license	21
Keeping hens without license	77
" pigeons without license	18
" hogs without license	1
Hearing notices posted	299
Hearings advertised in public press	53
Legal orders served	142
Houses disinfected	920
School rooms disinfected	12
Public sanitaries—inspections and cleanings	1,152
" " repaired	14
Inspections by sanitary inspectors	10,052
Subsequent inspections by sanitary inspectors	7,764
Complaints received by inspectors through office	552
" " " " outside office	514
" " and investigated—No cause	173
" " " " —Nuisance abated	893
Contagious cases investigated and histories obtained:	
Diphtheria	358
Scarlet Fever	379
Typhoid Fever	35
Septic Sore Throat	19
Measles	871
German Measles	21
Mumps	124
Chicken-pox	267
Whooping-Cough	295
Acute Anterior Poliomyelitis	1
Epidemic Cerebro-Spinal Meningitis	2
Dysentery—(amebic)	2
" —(bacillary)	1
Malaria	1
Tetanus	1
Houses placarded—(for diphtheria and scarlet fever)	334
Hearings given:	
On applications to keep horses	53
" " " " hens	166
" " " " pigeons	26
" " " " ducks and geese	1
Permits granted:	
Stables—cows	22
" —horses	38
Hens	141
Pigeons	19
Ducks	1
To keep, kill, and sell, live and dressed poultry	2
Licenses granted:	
Undertakers	52
Manicure and massage	26
Rummage sales	39
Collect and cart grease	22
" " " manure	28
Cart garbage	7
To fill premises	4

To distribute free samples of medicine	1
Premises approved as suitable:	
To board infants	33
To maintain lying-in hospitals	3
To slaughter cattle	3
Permits issued for burial and removal of dead bodies:	
Died in Cambridge	1,578
Died outside of Cambridge	49
Disinterments	15
Patients removed to hospitals:	
To Diphtheria Hospital, Reservoir Street	93
To Massachusetts Homeopathic Hospital, Brighton	139
To Massachusetts Homeopathic Hospital, Boston	2
To Tuberculosis Hospital, Concord Avenue	42
To Cambridge Hospital, Mt. Auburn Street	6
To Holy Ghost Hospital, Cambridge Street	1

Respectfully,

JOHN D. CROWLEY.
Clerk.

REPORT OF INSPECTOR OF ANIMALS

Cambridge, Mass., January 1, 1916.

Hon. Wendell D. Rockwood,
City Hall,
Cambridge, Mass.

Dear Sir:

I beg to submit the following report for the year ending January 1, 1916, for the department of "Inspector of Animals."

This department includes care of all animals in health and disease. In November of the past year, Foot and Mouth Disease, affecting the mouth, feet, and udder of cattle and other domesticated animals, broke out in Michigan; it quickly found its way to the Chicago Stock Yards, then to the Buffalo Market and finally to the Brighton Stock Yards where cattle were sold and distributed all over the State for dairy purposes.

In a matter of a short while outbreaks occurred in 65 towns and cities in the Commonwealth. It is economically impossible to treat this disease, although the mortality is low—3 per cent. in mild cases to 40 per cent. in malignant ones.

The tremendous ravages of the disease are seen in the number and variety of species attacked. While it may be regarded as essentially a disease of cattle almost in the same grade of receptivity come sheep and goats. Horses, dogs, cats, and even poultry have been victims of the infection, the last three classes being particularly dangerous as carriers of the contagion.

Man himself is not immune, and the frequency of his infection by coming in contact with the diseased animals themselves is established by numerous observations. Children suffer as a result of drinking the unboiled milk from infected cattle. In such cases the symptoms resemble those observed in animals. There is fever, a tonsilitis followed by an eruption of blisters in the mouth, and on the cheeks, and very rarely by similar ones on the fingers. The disease is very seldom fatal and chiefly restricted to children and to those adults who handle the sick animals or drink the unboiled milk.

Veterinarians regard the human affection as by no means uncommon in communities where Foot and Mouth Disease prevails.

In this city immediately upon receiving word from the State authorities, the cows of the entire city were inspected and stringent methods adopted as far as possible to prevent the disease from coming into the city.

Weekly inspections were made by myself, assisted by Inspector of Provisions Johnson. A system of education was started among the owners as regards symptoms and appearances of the disease and insisting on thorough cleanliness and disinfection of premises, which, I am pleased to say, has been carried out persistently.

The quarantine on Middlesex County was lifted on June 21, 1915.

25 cow barns visited weekly for a period of 24 weeks, from Jan. 1 to June 21 ..... 600 visits
3 visits were made by U. S. Federal Inspectors during this period. I attended them on their inspection ..... 75 "

Although every city and town bordering Cambridge had cases of this disease, not one was discovered here.

During the past year 29 cows were examined by me, and samples of milk taken which were later examined by Dr. Noonan of the Board of Health. Three of these cases were found to be affected with streptacoci, and use of milk from these was discontinued. Twenty-nine visits.

Glanders.

Twenty-two cases of glanders were reported and 15 found to be affected with the disease.

Visits to stables for disinfection 41
Visits to blacksmith shops where horses had been shod, and had premises disinfected 12

Rabies.

On June 27th I was called to see a dog acting strangely on Larch Road, and found him suffering from Dumb Rabies. The only history of the case was that he had a mixup with two cats in the rear of Fresh Pond Driveway two days before. I hunted for three days for the owner of the cats, knowing if they had been bitten by the dog they would develop Rabies.

About a week after a prominent Cambridge attorney, having

heard of my inquiries, told me he owned two cats and had taken them to his summer residence on the Cape.

On my advice he destroyed both animals before they had a chance to do any damage. About this time the Board of Health received a communication from the Bureau of Animal Industry in the State House that a Cambridge dog belonging on Copley Road had died of Rabies in a Boston Veterinary Hospital.

I started an investigation and found five people that had been bitten or scratched by this dog. They were advised, by the Board of Health, to take the Pasteur Treatment. I also found that this dog had fought with two collies and one bulldog in the past few days. I found the bulldog and quarantined him, but there were eight collies in the neighborhood and I quarantined them all.

About this time a large number of dog bites were being reported daily at the Board of Health and Police Stations. I finally communicated with the Bureau of Animal Industry, State House, Boston, and they decided to quarantine all dogs in their own premises for a period of ninety days. During the following week a case was reported on Avon Street. A child of a prominent attorney had been bitten. Investigation revealed the fact that the dog had been shipped to Maine for the summer. The dog was brought back and placed in a Boston hospital for six weeks under observation.

Thirty-one people were bitten by dogs and reported to the Board of Health. These cases were all investigated and placed under observation.

Visits to dogs under observation during 90 days, and cases investigated	227 visits

Sick Horses in various departments of the city:

Street Department, all stables	326	visits
Fire Department	189	"
Police Department	66	"
Cemetery Department	4	"
Water Department	10	"
Health Department	6	"
Overseers of the Poor	24	"

Miscellaneous Visits

Examination of horses coming into city from other States	11	visits
Water Department, a horse belonging to a Waverly milkman fell into hole. I investigated case for City Solicitor, also made 4 visits to horse in Waverly	4	"

City Home

Superintendent of Streets notified me that he had received a communication from the Bureau of Animal Industry in the State House threatening the quarantine of all premises, including swill-sheds, yards, and everything adjacent to the hog-pen where 39 hogs were kept by the City Home. This was due to the fact that hog cholera, a contagious disease, had been found among the hogs, and had been disseminated through adjacent towns by farmers carrying swill from the yards.

This meant the removal of the swill-yards to Raymond Street yard, and a big expense to the city. I made an appointment with the State Veterinary, and discussed the matter with him. He very kindly let the matter drop, on promise of thorough disinfection of all premises, and furthermore gave permission to slaughter the hogs, 39 in all, which was done under my inspection; time taken, a day and a half. No more hogs are to be kept on the premises.

Fire Alarms

It is the duty of the Inspector of Animals to answer all second alarms, to look after the care and welfare of horses. All have been covered by me, spending two whole nights,—Glue factory fire and Clark Bros.

Number of horses owned by the city, in all departments..... 177
Number of horses died during the past year..... 1
Cause of death, Black water.

Whole number of visits made for all departments during the past year, 1,646.

(Signed)

DAVID L. BOLGER,

Inspector of Animals.

REPORT OF THE TRUSTEES OF THE BRIDGE CHARITABLE FUND.

The following is the thirty-eighth annual report relative to this fund, as prepared by the City Treasurer:

Founded by the late Levi Bridge of Cambridge, in his lifetime, by a deed of trust dated August 12, 1875, and upon his death (April 15, 1876), the amount of said fund came into the hands of the city. In October, 1877, Mr. Samuel F. Bridge, a relative of the founder, gave a sum sufficient to double the amount. When the fund reached two thousand dollars, one-third of the income was to be added to the principal and two-thirds of the income was to be paid over annually to the Overseers of the Poor, to be expended for the deserving poor of Cambridge. The trustees consist of the Mayor, the President of the Board of Aldermen and the President of the Common Council.

The City Treasurer is custodian of the fund.

Amount of fund March 31, 1915	$2,614 99	
Interest to March 31, 1916	105 62	
Total		$2,720 61

Two-thirds of the income, amounting to $70.42, was paid to the Overseers of the Poor, and the balance $35.20, was added to the principal, leaving a balance of $2650.19 in the hands of the City Treasurer. Said sum is deposited in the Central Trust Company and bears interest at the rate of four per cent. per annum.

HENRY F. LEHAN,
City Treasurer.

As all the essential facts in relation to this fund are recited in the report of the City Treasurer, the Trustees desire only to repeat the suggestion embodied in previous reports, that other charitable persons may be disposed to add their contributions to the fund.

TIMOTHY W. GOOD,
PETER J. NELLIGAN,
ARTHUR S. BROWNE,

Trustees of the Bridge Charitable Fund.

SECOND ANNUAL REPORT OF THE CAMBRIDGE PLANNING BOARD

MEMBERSHIP

Ex-Officio Member

Wendell D. Rockwood, Mayor.

Citizen Membership

Mr. W. F. Harris, Chairman	Term expires		May, 1918
Mr. Robert E. Martin, Vice-Chairman	"	"	May, 1920
Stella R. McKenzie, Secretary	"	"	May, 1917
Mr. Harris Ginsberg	"	"	May, 1916
Mr. James J. Hill	"	"	May, 1919

FINANCIAL STATEMENT, MARCH 30, 1916

Appropriation	$1,000 00	Expenditures.	
Transferred to Reserve Fund	400 00	Services of consultant	$300 00
	$600 00	Draughting and Stenography	140 20
	492 42	Maps, postage, supplies, etc.	52 22
			$492 42
Balance unexpended	$107 58		

November 4th, 1916.

In our first report, the importance of city planning in directing the entire subject, as well as in the special problems which the Board was able to take up in its first year. This report is available upon request, and therefore reference is made to it for this general discussion. The present report will simply outline the results of the past year's work.

The Board at the beginning of the fiscal year was composed of:

G. F. McKelleget, Chairman.
Harris Ginsberg, Vice-Chairman.
Mrs. Stella R. McKenzie, Secretary.

Robert E. Martin.
James J. Hill.

Following the resignation of Mr. McKelleget, W. F. Harris was appointed to fill the vacancy. On June 13th, 1916, W. F. Harris was elected Chairman and Robert E. Martin, Vice-Chairman.

Regular meetings were held in Room 32 of the City Hall during the fiscal year on the second and fourth Tuesdays of each month, except July and August.

On August 1st, 1916, the Board was given permanent quarters in Room 23 of the City Hall, which admirably suited as a regular office.

It is the hope of the Planning Board henceforth to prove itself of use to all departments as a place of reference for facts concerning the city's activities and physical aspects. The office should be kept open during the day, and be in charge of a technical assistant as clerk. As soon as adequate appropriations are made, some such arrangement should be carried out.

Meanwhile, under the direction of Arthur C. Comey, the Board's consultant on City Planning, a considerable number of studies has been made in preparation for the main task of the Board, the comprehensive city plan of Cambridge.

It is hoped to complete a tentative study of this plan within a few years. Upon the finally adopted plan, all the elements of a city plan that are capable of being fixed on a map should be shown. In addition to the plan itself, certain other phases of city planning which cannot be mapped out in this way may be outlined, especially that of the housing law and other methods of proper control of private property.

The comprehensive plan will be drawn on a large scale map of the city, probably 200 feet to the inch, and will show locations and grades of proposed, new, relocated and widened streets, parks, public buildings, waterways, and other public property; railroads, electric lines, utilities and other quasi-public property; and building lines and other means of control of private property. In amplification of the general plan, detailed plan and sections will be needed to indicate the precise application.

The complete category of physical aspects of the city to be shown on the plan may be classified according to the following schedule:

THE PHYSICAL ASPECTS OF THE CITY AS SHOWN ON THE PLAN.*

I. CIRCULATION.

A. Streets.
1. Location of thoroughfares, minor streets and parkways.
2. Subdivisions of widths in pavements, sidewalks and parking.
3. Car lines.
4. Utilities (water, sewerage, gas, electricity, telephone, telegraph, etc.).
5. Furnishings (trees, lights, signs, bridges, monuments).

B. Railroads.
1. Rights of way and tracks.
2. Terminals.

C. Waterways.
1. Drainage.
2. Commercial.

II. PUBLIC PROPERTY.

A. Administration.
1. Federal (post office).
2. State.
3. County (court house, etc.).
4. City (City Hall, police and fire stations, markets, etc.).

B. Education.
1. Schools.
2. Libraries and museums.

C. Recreation.
1. Playgrounds.
2. Recreation centers, baths, etc.
3. City Squares.
4. Local Parks.
5. Large Parks.
6. Parkways and boulevards.
7. Forest Reservation.
8. Other open spaces.

III. PRIVATE PROPERTY.

A. Zones of use.
1. Quasi-public (churches, colleges, other institutions, club grounds, hotels, cemeteries, etc.).
2. Industrial.
3. Commercial.
4. Residential—apartment.
5. Residential—one and two family.

B. Fire districts.

C. Building height districts.

D. Building lines and other easements and restrictions.

*This tabulation by Arthur C. Comey has appeared in Bulletin 1 of the Massachusetts Federation of Planning Boards.

For guidance during the past year, a tentative program of work was submitted by the consultant and the following studies completed.

1. SURVEYS.

I. UNDERLYING FACTORS.

A. Use of land.
1. Vacant property (Map No. 36).

II. CIRCULATION.

A. Streets.
1. Lay-out.
a. Thoroughfares (Map No. 2).
b. Widths. Map showing existing widths (Map No. 2).

B. Transportation.
1. Transit. Study of conditions. Areas served (Map No. 25).

III. PUBLIC AFFAIRS.

A. Administration.
1. Property. Location and use (Map No. 45).

B. Education.
1. Schools.
a. Location (Map No. 23). Maps showing areas served (Maps Nos. 32 and 34).

C. Recreation.
1. Playgrounds.
a. Location. Map showing areas served (Map No. 22).

IV. SOCIAL CONDITIONS.

A. Housing.
1. Population. Map showing density by dots, 1910 (Map No. 27), 1915 (Map No. 42).

II. CIRCULATION.

A. Streets.
1. Lay-out.
a. Locations of proposed streets (Map No. 28).
b. Widths. Plan showing proper widths for thoroughfares (Map No. 14). Plans for widening each (Maps Nos. 15, 16 and 35).
2. Traffic.
a. Regulation—in detail (Map. No. 41).

III. PUBLIC AFFAIRS.

A. Recreation.
1. Parks.
a. Plan showing proposed sites (Map No. 21) in detail (Map No. 37).
2. Play.
a. Plan showing proposed sites and areas (Map No. 39).

IV. SOCIAL CONDITIONS.

1. Use of property. Plan for zoning according to use; restricting apartments, factories, etc., to certain areas (Map No. 29).

During 1915-1916 the series of maps begun in 1914 has been increased to 45, of which the more important are as follows:

1. Map of the City.
2. Thoroughfare Map (locations and widths).
3. Street changes proposed previous to 1915.
4. Contour Map (in colors).
5. Soil Map (mud, sand and clay).
6. Drainage Map (sewerage areas).
7. Map of Metropolitan District.
8. Thoroughfares between Cambridge and vicinity.
11. Zones tributary to car-line through West Cambridge.
12. Central portion of Metropolitan District.
14. Typical cross-section proposed for streets.
15. Proposed widening of Bridge Street.
16. Massachusetts Avenue, proposed widening; City Hall to Harvard Sq.
17. Range in Assessed Value of Land, 1914.
18. Map of Fresh Pond Marshes.
19. Small Map of the City.
20. Massachusetts Avenue, plan for widening; Garden Street to Waterhouse Street.
21. Areas served by Playgrounds (¼ to ⅜-mile circles).
22. Park System (City and Metropolitan Parks).
23. Areas served by Schools (¼ and ⅜-mile circles).
25. Electric Railway System and area served.
26. Population by Precincts, 1910.
27. Distribution of Population, 1910 (by dots).
28. Tentative Plan for Changes in Street System.
29. Tentative Study for Districting (factories, apartments, etc.).
30. Development of Property (public, commercial, dwelling, railroad, etc.).
32. Grammar School Districts (number of pupils by grades).
34. Primary School Districts (number of pupils by grades).
35. Massachusetts Ave. Plan for Changes at Holmes Pl. (rounding corner).
36. Vacant property (all unused land).
37. Charles River Embankment, plan to complete park.
38. Distribution of Children of School Age (by dots).
39. Proposed Playgrounds System (areas and number of children served).
41. Central Square, proposed Traffic Posts.
42. Distribution of Population, 1915 (by dots).
45. Public Property (according to use).

Map No. 17, showing the range in assessed land values, No. 30, showing the development of property, and No. 14, the proper widths for streets, were published with last year's report, and their application carefully analyzed.

In continuation of the study of conditions—the civic survey—the Board desires particularly to call attention to Map No. 42, showing the distribution of population in 1915 throughout the city, by dots, each dot representing fifty people. The congested districts are seen at a glance, as well as the areas not dwelt upon, whether because given over to factories or other business purposes or because not yet Cambridge.

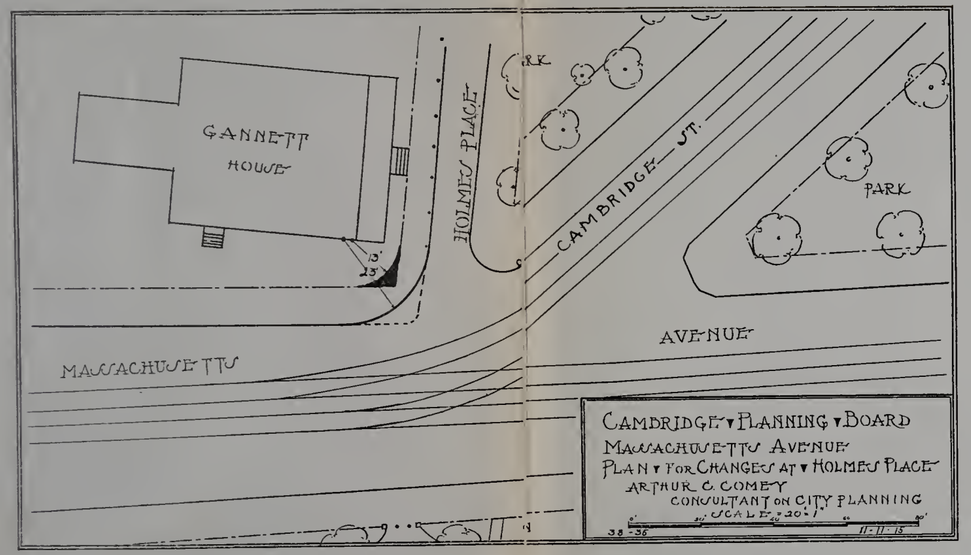
This map is likely to prove very useful in a large number of municipal activities, such as the location of parks, schools, social centers, police and fire houses, etc., as it indicates graphically the number of people within any given area likely to be served by such a public improvement. If a circle is inscribed on the map around the point where a social center is proposed, the dots may be counted and the number of hundred people within a quarter or a half mile of it determined.

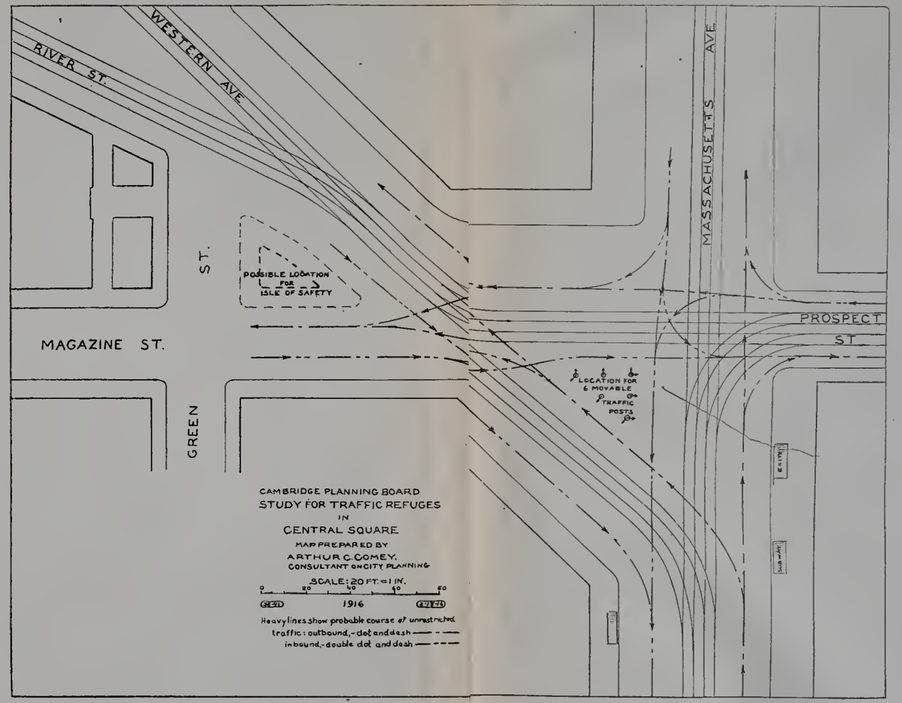
One of the matters of greatest concern to the Planning Board has been that of an adequate playground system. Realizing that, as proven elsewhere, most children will not habitually walk more than one-fourth of a mile to a playground, the Board made a special study of present conditions, with a view to recommendations for opening additional grounds in the areas not served.

The first study was directed to finding the areas already served, as indicated on Map 21 by circles drawn around each playground. It was, of course, necessary to know the number of children in each area served, and in the areas not served. In the belief that the map of the distribution of population would not be a sufficiently accurate gauge of the distribution of children, a study of school districts, both primary and grammar, was next made and maps drawn showing the number of children in each district. These districts were found to be so irregular, however, and to embrace areas of such varying densities of population that they were of little use in this connection, though they clearly indicated the haphazard distribution of Cambridge schools.

Finally the Board had the entire census of children of school age, five to fifteen years old, plotted on a map, using a dot for each five children; with this as a basis, almost the exact number of children likely to use each playground was determined, and the figures placed on the map of areas served by playgrounds.

Next, the areas not served were studied and tentative locations for new playgrounds established first with the aid of the map (published last year) showing use of property, and a supplementary map showing vacant land within the city, and then by visits to the suggested sites. Plan No. 39, showing the proposed playground system, was then prepared and circles drawn around the proposed playgrounds as well as the present ones. By reference to the map of distribution of children, the number likely to use each new playground


GANNETT
HOUSE
HOLMES PLACE
CAMBRIDGE ST.
PARK
AVENUE
MASSACHUSETTS
CAMBRIDGE ▾ PLANNING ▾ BOARD
MASSACHUSETTS AVENUE
PLAN ▾ FOR CHANGES AT ▾ HOLMES PLACE
ARTHUR C. COMEY
CONSULTANT ON CITY PLANNING
SCALE: 20 FT. = 1 IN.
11-11-15


RIVER ST.
WESTERN AVE
MASSACHUSETTS AVE
MAGAZINE ST.
GREEN ST.
PROSPECT ST.
POSSIBLE LOCATION FOR ISLE OF SAFETY
LOCATION FOR 6 MOVABLE TRAFFIC POSTS
CAMBRIDGE PLANNING BOARD
STUDY FOR TRAFFIC REFUGES
IN
CENTRAL SQUARE
MAP PREPARED BY
ARTHUR C. COMEY,
CONSULTANT ON CITY PLANNING
SCALE: 20 FT. = 1 IN.
1916
Heavy lines show probable course of unrestricted traffic: outbound, - dot and dash
inbound, - double dot and dash



was thus determined. The value of such data cannot be overestimated in determining the expenditure of the city's money in the future in a way best to serve the greatest public interest.

During the coming year, the Board intends to take up one or more of these sites and urge action by the Council.

Many of the other maps on file represent simply tentative studies of various aspects of the city plan and its relation to that of the metropolis of which the plan of Cambridge should be a co-ordinate part. The Board expects to make recommendations along several of these lines during the coming year.

On two matters of detail in the city plan the Board has been able to give sufficient study to reach definite conclusions. On November 23rd, 1915, it recommended changes at the dangerous corner of Massachusetts Avenue and Holmes Place, where all the traffic from Cambridge Street and Massachusetts Avenue itself, must pass through a space less than six feet wide between the car track and the curb. As shown on Map No. 35, it is proposed that the corner of the property be rounded off, taking some thirty-six square feet, which should not in any material way damage it, and that the curb be relaid so as to give adequate space for vehicles to pass.

Since this proposal was made, the curb has been rounded off slightly, but not sufficiently to remedy the bad conditions. There is, however, pending in the Council, an order for an even more drastic improvement than that contemplated by the Board.

On January 25th, 1916, the Board received a request from the Mayor to consider making Central Square safer for pedestrians. On March 14th, 1916, the Board's reply was sent, accompanied by Plan No. 41, showing its recommendations for the location of six traffic posts in the square. The probable routes of unregulated traffic were worked out so as to prove the practicability of this scheme.

No action was taken, however, until a man was killed at this spot. The posts are now installed in substantially the positions recommended by the Board. Had action been taken sooner, this man's life would probably have been saved.

While concentrating its attention on the main issue—a comprehensive plan, the Board hopes to find opportunities to make many such recommendations as to civic improvements from time to time in co-operation with various city departments, as well as voluntary

organizations in the city interested in municipal development, from whom assistance and suggestions will be cordially welcomed.

Realizing that Cambridge must be considered as an integral part of the Metropolitan community, the Board hopes also to co-operate with other planning boards in developing a metropolitan plan.

Respectfully submitted,

W. F. HARRIS, Chairman.
ROBERT E. MARTIN, Vice-Chairman.
JAMES J. HILL.
STELLA R. McKENZIE, Secretary.

REPORT OF THE TRUSTEES OF THE DOWSE INSTITUTE

FOR THE YEAR 1916.

To the Honorable, the City Council:

The Trustees of the Dowse Institute have the honor to report that during the year 1916 they maintained a course of lectures in Brattle Hall.

The Trustees also co-operated with the Industrial Committee of the Young Men's Christian Association in presenting, in Brattle Hall, a short course of lectures on Our Foreign Immigrants. This course was highly successful.

The Trustees appropriated seventy-five dollars from the income of the entertainments for the work of the Industrial Committee of the Young Men's Christian Association, in East Cambridge.

Respectfully submitted,

JOSEPH H. BEALE,
Secretary of the Trustees.



Demonstration Day, Russell Field.

REPORT OF BOARD OF PARK COMMISSIONERS

To the Honorable, the City Council of the City of Cambridge:

Gentlemen:—The Board of Park Commissioners has the honor to submit herewith its twenty-third annual report covering the municipal year to March 31st, 1916, together with the twenty-second annual report of the General Superintendent of Parks, as required by Section 5 of the Ordinance establishing a Park Department.

CHARLES RIVER PARKWAY.

The River Parkway has now reached a state of completion where it is absolutely necessary that it be maintained in a proper manner. At present there is a fine roadway from Cambridge Bridge to Mt. Auburn St., but the planting space is only maintained in certain spots, such as west of Boylston Street, and in the vicinity of Harvard Bridge. If a suffcient sum were allowed each year for the proper maintenance of the River Parkway, Cambridge could boast of a park drive surpassed by few cities in the country.

Considerable work was done on the Parkway the past year. The entire system of lights was installed and all trees along the driveway have been planted. The section between Boylston St. and Western Ave. has been greatly improved, although not completed owing to lack of funds. The completion of this section would add greatly to the appearance of the Parkway.

A large amount of filling was placed on the play-ground section at Captain's Island. It is the intention of the Commissioners to lay out four base-ball diamonds at this point, something that is needed because of the large number applying for permits for such fields.

With the completion of the new Technology Buildings it will be necessary to complete the entire stretch of parkway between Harvard and Cambridge Bridges at an early date. The Technology authorities have shown a splendid spirit towards this department since coming to Cambridge, and the Park Commissioners have in turn always shown a desire to co-operate with the Institute.

PLAYGROUNDS.

As only $6,000 was allowed for construction work on the various playgrounds, not much permanent work was accomplished.

At Thorndike Field the apparatus was removed because of lia-

bility of accident. This field is sadly in need of sanitary accommodations.

At Cambridge Field the main portion of the Shelter was placed at the disposal of the Library Trustees for use as a Branch Library. The children's section on both sides of the Shelter was fenced in and apparatus purchased which will be installed the coming year. This field is in need of bleachers.

At the Millpond a fence has been provided, new surface placed on the field, several hundred trees planted and the condition of the field greatly improved. This field is in need of locker building, bleachers and sanitary accommodations.

No additional work was done on Rindge or Russell Fields, nor on any of the smaller playgrounds with the exception of the Sleeper Schoolyard, where a new fence was erected.

FINANCIAL STATEMENT.

PARK LOANS

Amount of unused balance of 1914 appropriation reappropriated April 16, 1915		$10,331 53
Amount appropriated June 28, 1915		25,000 00
Amount appropriated November 19, 1915		5,000 00
		$40,331 53

PLAYGROUND LOANS—CONSTRUCTION AND EQUIPMENT

Amount appropriated June 28, 1915		$6,000 00
Amount transferred to General Expenses		8 56
		$5,991 44
Amount transferred from Maintenance, Forestry	$11 96	
Amount transferred from Maintenance, General	09	
		12 05
		$6,003 49

PLAYGROUND LOANS—PURCHASE OF LAND

Amount of unused balance of 1914 appropriation reappropriated April 16, 1915		$8,705 90

MAINTENANCE PLAYGROUNDS

General Expenses:		
Amount appropriated May 15, 1915		$500 00
Amount transferred from Salaries	$119 75	
Amount transferred from Construction and Equipment	8 56	
		128 31
		$628 31
Salaries:		
Amount appropriated June 28, 1915		$3,360 00
Amount transferred to General Expenses		119 75
		$3,240 25

MAINTENANCE PARKS

General:		
Amount appropriated May 15, 1915		$31,295 00
Amount transferred to Street Department		432 00
		$30,863 00
Amount transferred from Oiling Playgrounds, March 8, 1916	$183 20	
Amount transferred from Forestry, March 8, 1916	250 00	
Amount transferred from Library Trustees, March 8, 1916	95 00	
Amount transferred from Reserve Fund, February 17, 1916	60 00	
		588 20
		$31,451 20
Forestry:		
Amount appropriated May 15, 1915		$16,000 00
Amount transferred to General, March 8, 1916		250 00
		$15,750 00
Salaries:		
Amount appropriated May 15, 1915		$3,040 00
Oiling Playgrounds:		
Amount appropriated May 15, 1915		$500 00
Amount transferred to General, March 8, 1916		183 20
		$316 80
Memorial Flag Staff:		
Amount of unused balance of 1914 appropriation reappropriated April 16, 1915		$190 49

During the year bills payable from Park Loans have been approved by the Board and certified to the Auditor to the amount of $40,314.14 as follows:

River Parkway, Section A:		
Construction account	$14,361 96	
River Parkway, Section B:		
Construction account	7,835 46	
River Parkway, Section C:		
Construction account	108 59	
River Parkway, Section D:		
Construction account	2,684 65	
River Parkway, Section E:		
Construction account	467 01	
River Parkway, Section F:		
Construction account	6,644 34	
River Parkway, Section G:		
Construction account	5,919 90	
McNamee Square Section F:		
Construction account	2,292 23	
Amount expended		$40,314 14
Balance unexpended		$13 64

During the year bills payable from Playground Loans have been approved and certified as follows:

	Expended	Balance Unexpended
Construction and Equipment	$6,003 49	
Land for Playgrounds	3,900 00	$4,805 90

During the year bills payable from Park and Playground Maintenance have been approved and certified as follows:

	Expended	Balance Unexpended
Maintenance, General	$31,450 77	$ 43
Maintenance, Forestry	15,739 02	10 98
Maintenance, Salaries	3,040 00	
Maintenance, Oiling Playgrounds	316 80	
Maintenance, Memorial Flag Staff	172 17	18 32
Maintenance, Playground Salaries	3,240 25	
Maintenance, Playground General Expenses	628 31	

A detailed classification of the expenditures will be found in the report of the General Superintendent.

Since the beginning of the work in 1893, there has been expended to date of money raised under Park and Esplanade Loans the sum of $1,724,357.05.

The division is as follows:

River Parkway, Section A:—		
Construction account	$201,321 19	
Land account	9,416 83	
		$210,738 12
River Parkway, Section B:—		
Construction account	$119,423 03	119,423 03
River Parkway, Section C:—		
Construction account	$131,002 14	
Land account	31,701 08	
		163,703 22
River Parkway, Section D:—		
Construction account	$132,594 13	
Land account	95,047 25	
		227,641 38
Section E:—		
Construction account	$18,412 64	
Land account	67,145 00	
		85,557 64
Section F:—		
Construction account	$99,444 21	
Land account	67,491 62	
		157,936 83
McNamee Square:		
Construction account	$2,292 23	2,292 23

Section G:—		
Construction account	$127,037 68	
Land account	86,824 82	
		213,862 50
Section H:—		
Construction account	$13,135 30	13,135 30
River Parkway, Delta, Cambridge Bridge:—		
Construction account	927 83	927 83
Rebuilding Sea Walls:—		
Construction account	10,887 89	10,887 89
Cambridge Field:—		
Construction account	$128,513 59	
Land account	78,884 85	
		207,398 44
East Cambridge Embankment:—		
Construction account	$102,897 93	
Land account	45,231 40	
		148,129 33
General Account:—		
Construction account	$55,352 45	55,352 45
Rindge Field:—		
Construction account	$19,307 86	
Land account	31,461 95	
		50,769 71
Office Expenses:—		
Construction account	$15,915 29	15,915 29
Broadway:—		
Construction account	11,635 27	11,635 27
Nursery:—		
Construction account	9,240 49	9,240 49
Improvements at Rindge Field:—		
Construction account	7,788 98	7,788 98
Floating Bath House:—		
Construction account	4,483 28	4,483 28
Hastings Square:—		
Construction account	2,683 07	2,683 07
Baths and Lockers:—		
Construction account	2,500 00	2,500 00
Shower Baths and Heating Apparatus, Rindge Feld:—		
Construction account	1,891 10	1,891 10
Winthrop Square:—		
Construction account	1,866 26	1,866 26
Dana Square:—		
Construction account	1,111 42	1,111 42
Mill Pond:—		
Construction account	999 97	999 97
Fort Washington:—		
Construction account	929 79	929 79
Memorial Gateway, Cambridge Common:—		
Construction account	565 07	565 07
Washington Elm:—		
Construction account	466 98	466 98

Porter Square:—		
Construction account	20 87	20 87
		$1,728,851 44
Less Park Revenue for 1894 and 1896 merged into land and construction accounts		4,494 39
		$1,724,357 05

Of the whole amount of Park Loans expended to April 1st, 1916, 29 per cent. has been for land and 71 per cent. for construction, as follows:

Land account (less revenues)	$508,710 31
Construction account	1,215,646 74
	$1,724,357 05

Respectfully submitted,

DANIEL A. BUCKLEY,
JOHN T. SHEA,
DAVID J. NELLIGAN,
JOHN J. AHERN,
WILLIAM M. WADDEN,

Park Commissioners.

REPORT OF THE GENERAL SUPERINTENDENT OF PARKS.

Cambridge, Mass.,
April 1, 1916.

To the Board of Park Commissioners, City of Cambridge:

Gentlemen:—In accordance with the usual custom, I have the honor of submitting my ninth annual Report as General Superintendent of Parks, covering the financial year from April 1st, 1915.

SECTION A.

The greater part of the work done in this section during the past year was the building of the 30-ft. and 40-ft. roadways between Massachusetts Avenue and the Cambridge Bridge, two-thirds of these roads being in Section "A" and the other third extending into Section "B".

The stone used in the construction of this work was supplied by Beatty Construction Company, with whom we entered into contract at a price of $1.50 per ton.

The oils were furnished by the Standard Oil Company of New York, these being known as Standard Macadam Asphalt Binders "B" and "C," at a price of 11c and 13c per gallon respectively.

Binder "B" is the lighter of the two, but has proven thoroughly satisfactory on the 40 ft. roadway. The traffic on the 30 ft. roadway is very great, and it was, therefore, decided that Binder "C" would have to be used. It is doubtful if even this grade will enable the road to satisfactorily stand up against the wear and tear which it is constantly receiving. My recommendation would be that we turn over this latter roadway to the Street Department, under whose supervision it really ought to be, as it is now used almost entirely for commercial purposes, and cannot be correctly classified under the "Park Department."

Shrubbery beds were planted, the lawn was seeded and twenty-three catch basins brought up to grade.

SECTION B.

The most important work done on this section was that of the roadways, as described under the preceding section.

Four men were employed to take care of the grass, trees, and shrubbery, in an endeavor to make the parkway as attractive as possible.

The cost of lighting this Section was $810.64.

SECTION C

The only work done on this section was that of teaming sixty loads from the end of the sea-wall on Section B to the railroad bridge in order to fill the depressions on the sidewalk at that point.

The cost of lighting amounted to $516.70.

SECTION D

In 1894 a dike was built on this section. As the water in this basin is now on a level, the dike was of no assistance, consequently was removed and spread over the marshes.

We were successful in securing sufficient filling to bring the large Ball Field located here to practically sub-grade.

The Street Department supplied the necessary ashes and filled the small bay between Brookline Street and the right of the old dike.

Thus, the general appearance of this section has been materially improved and with the expenditure of just a little more money, in order to apply a top surface, this could be made one of the best recreation spots in the city. We could then use this for a ball field with four diamonds, a race track, and there would still be space enough for a tennis court.

The Bath House was opened from June 28 with the usual attendants. On Nov. 12 these buildings were completely destroyed by fire. This was of no material loss to the city, as they were in a very dilapidated condition. If bathing is to be continued at this beach, new bath houses will have to be erected immediately.

It cost us $531.33 for the lighting of this section.

SECTION E

Fifty-one new trees were planted, a coating of Tarvia "B" applied to the roadway, as well as a covering of sand.

The lighting cost amounted to $246.08.

SECTION F

That portion of this section extending between the Weld Boat House and Plympton Street which was not covered with loam last year was taken care of this year.

The lawn was seeded and in the course of about a year it ought to be a very attractive spot.

Considerable loam has been placed on the east side of Plympton Street, but about 500 yards more are needed before completion can be effected.

The roadway received an application of Tarvia and a covering of sand.

Four catch basins were brought to grade.

That part of DeWolfe Street known as McNamee Square was turned over to the care of the Park Department on October 22, 1914. This necessitated the excavating of the old macadam road to a depth of 12", the filling in of loam, the setting of edgestones, change of drainage, and the building of that part of Otter Street adjacent to the parkway.

The cost of lighting this section was $451.25.

SECTIONS G AND H

Five men were employed to do the usual work of maintaining these sections.

The 40 ft. Tarvia Macadam road between Boylston and Mt. Auburn Streets was finished, thus completing the entire park roadway from the Cambridge Bridge on the east to Mt. Auburn Street on the northwest.

CAMBRIDGE FIELD AND SHELTER

CAMBRIDGE FIELD.

The work necessary to keep the grounds in good repair was attended to in the usual manner during the proper seasons.

The boardwalks on the various parts of this field are in a very dilapidated condition and it would be my recommendation that sufficient money be appropriated during the coming year,—to have granolithic walks laid. If this is done now, the final cost will be greatly minimized as it is costing us considerable money each year to try to keep the old boardwalks in repair.

Three coatings of oil were applied to the Ball Field for the purpose of dispensing with the dust.

The flag pole and the entire chain link fence surrounding the Ball Field were painted.

CAMBRIDGE SHELTER.

The Library Trustees were given the use of the lounging room in this building for a branch library. This necessitated several changes, one of which consisted of a new door on the easterly end of the building, in order to give access to the lavatories from the outside, thus preventing unnecessary traffic through the Library. Some of this expenditure was borne by the Department and the balance by the Trustees of the Library.

I might say in this connection, that since this branch library has been established, there has been an additional consumation of about ten tons of coal per year. I, therefore, believe that the Library Trustees should be willing to be responsible for the providing of this excess quantity.

RINDGE FIELD AND SHELTER.

RINDGE FIELD

A new lawn tennis court was laid out. We now have two very fine courts on this field, but I believe the demand for this line of sport really justifies the erection of at least two more such courts. This could be very easily and economically done, by simply securing the necessary filling and rolling it down.

The field is well patronized during the baseball, football and skating seasons.

The old heater proved to be inefficient this year as the tubes were completely worn out. It was, therefore, necessary to install a new one.

Provision was made to give this field the customary care and attention during the year.

CAMBRIDGE COMMON.

The regular work of maintenance was arranged for, two men being employed in the Spring and Summer months.

The boardwalks on this common are also in a very bad shape

and I cannot too strongly urge the necessity of replacing these with granolithic ones.

Several fence rails are also in very poor condition and should be replaced during the coming year.

BROWN TAIL AND GYPSY MOTH.

The usual amount of work was done during this year. Private estates were cleaned and the street trees given the necessary attention.

SHADE TREES.

Pursuant to the work commenced last year, a systematic trimming was conducted throughout the city, the total number of trees amount to 450; 113 dead trees were removed and 1181 young trees planted, the greatest number of trees that have been planted in one year since the history of the department.

The Massachusetts State Forestry Association awards a prize to the City or Town throughout the Commonwealth planting the largest number of trees. In awarding this prize, which consists of 100 trees, due consideration is given to the workmanship employed, and this year Cambridge was fortunate enough to be the successful competitor, and next Spring the above mentioned Association will plant 100 trees in our City.

CONSTRUCTION AND EQUIPMENT OF PLAYGROUNDS.

In the interest of this work, the following purchases were made:

MILL POND.

500 New Trees were planted.

530 Loads of filling at 25c per load were purchased which amount will suffice for the spot.

A new hydrant was installed to be used for flooding the playground.

Seven swings and 14 Sand Boxes were purchased.

RINDGE FIELD.

The following articles were purchased for this year:

2 sets of 6 swings.

1 set of 4 swings.
1 set of Baby Baskets.
1 set of Children's Slides
12 Sand Boxes.

THORNDIKE FIELD.

There were 12 Sand Boxes and Tables purchased for this field.

CAMBRIDGE FIELD.

3 Sets of 6 Swings
2 Sets of Baby Baskets
2 Children's Slides
1 Set of 4 board see-saws,
were purchased for this field.

There was also erected here 539.6-ft. of chain-link fence, on the lot on the westerly side of the building,—thus making a playground for "girls" only.

There was also erected on the westerly side of the building 539.3-ft. of chain link fence,—thus making a playground for "boys" only.

PUBLIC LIBRARY.

One man was employed on the grounds during the summer months to give same the necessary care and attention.

The boardwalks leading up to the building are in a rather dilapidated condition and new ones should take their place shortly.

BROADWAY COMMON.

Two men worked on the grounds, caring for the grass and shrubbery during the seasonable months, and other general work of maintenance was performed.

MILL POND.

About 2500 cubic yards of dilling were used here, this bringing the field to practically sub-grade. All that is needed now to make it a first class playground is a slight covering of loam.

500 Poplar trees, bought in the Fall, were planted. Every Saturday and holiday finds this playground covered with people and it is now one of the most popular in the City.

THORNDIKE FIELD.

One man was employed to give the necessary care and attention to this field.

Two coats of oil were laid on the ball field and the children's playground to prevent, as much as possible, the rise of dust.

The large gymnasium apparatus was removed from the ball field, as it was considered dangerous there.

RUSSELL FIELD.

The ordinary work of caring for the grass, rolling the entire surface several times during the year, covering the track with cinders, etc., was carried on as in previous years.

EAST CAMBRIDGE EMBANKMENT.

The floating bath house was anchored here during the summer months, as heretofore.

SCHOOL PLAYGROUNDS.

The Playgrounds at the Roberts, Wellington, Merrill, Morse, and Peabody Schools were well cared for and the chain link fences at the Roberts, Wellington and Merrill schools were painted.

CITY HALL.

The sod surrounding the City Hall is now in such a condition that it should be respaded and seeded, and some shrubbery beds planted. The present sod has been there for 28 years and its usefulness is now greatly impaired.

Needless to say, this is not aided any by the ball playing which is frequently taking place on these grounds. This should be stopped, otherwise it is useless to spend time and money trying to make an attractive appearance here.

WINTHROP SQUARE.

Conditions have not improved any at this square, in fact they are worse than ever. The boys insist on playing ball, breaking down fences, trampling down the shrubs, and while we are doing everything in our power to keep this as attractive as possible, our work

will be fruitless unless we receive the co-operation of the Police Department.

LONGFELLOW PARK.

The $250 appropriation allowed for the care of this park is not sufficient to keep it in proper condition. The City Government accepted this Park from the Longfellow Memorial Association with the agreement to have it well cared for, and $500 is the smallest appropriation which should be allotted. This would permit of our employing one man from April 1st to December 1st.

THE YEAR'S EXPENDITURES.

The expenses of the department for the financial year of 1915 are shown in the following summary of the departmental accounts.

PARK LOANS

(Lands and Construction)

Amount of unused balance of 1914 appropriation reappropriated April 16, 1915			$10,331 53
Amount appropriated June 28, 1915			25,000 00
Amount appropriated Nov 19, 1915			5,000 00
			$40,331 53
EXPENDED			
Section A:			
Pay-rolls	$3,603 66		
Shrubs for beds	211 70		
Drainage	4 13		
Lawn seed	33 80		
Advertising	9 31		
Cinders	218 00		
Teaming	385 50		
Stakes	19 80		
Hardware, tools, etc	18 66		
Cracked stone	5,416 68		
Binder for building roadway	4,192 00		
Sand	211 40		
Signs	5 00		
Kerosene	7 00		
Coal	25 32		
		$14,361 96	
Section B:			
Pay-rolls	$2,193 33		
Teaming	298 50		
Cracked stone	2,310 90		
Binder for building roadway	2,956 52		
Hardware	9 82		
Cement	1 12		
Amounts carried forward	$6,770 19	$14,361 96	$40,331 53

Amounts brought forward	$6,770 19	$14,361 96	$40,331 53
Analysis of ledge	5 00		
Medical assistance	11 50		
Sand	48 77		
		7,835 46	
Section C:			
Payrolls	$87 59		
Teaming	21 00		
		108 59	
Section D:			
Teaming	$37 50		
Sand	35 20		
Pay-rolls	2,585 84		
Hardware, tools, etc	11 86		
Filling	14 25		
		2,684 65	
Section E:			
Pay-rolls	$52 31		
Tarvia	336 00		
Sand	16 17		
Capping on seawall	62 50		
		467 01	
Section F:			
Pay-rolls	$4,013 19		
Loam	2,178 22		
Tarvia	232 50		
Cracked stone	37 13		
Advertising	5 39		
Analysis of ledge	100 00		
Teaming	11 25		
Drainage	62 22		
Granolithic walk	4 44		
		6,644 34	
Section G:			
Pay-rolls	$1,719 19		
Advertising	8 82		
Hardware, tools, etc	15 98		
Coal	67 30		
Teaming	179 25		
Cracked stone	2,441 48		
Services for injured employe	30 00		
Tarvia	317 88		
Tar binder	1,052 00		
Sand	88 00		
		5,919 90	
McNamee Square:			
Hardware, tools, etc	$4 78		
Pay-rolls	1,394 63		
Teaming	300 75		
Edgestone	260 47		
Loam	289 53		
Drainage	42 07		
		2,292 23	
Total amount expended			$40,314 14
Balance unexpended			$13 64

PLAYGROUND LOAN

CONSTRUCTION AND EQUIPMENT—PLAYGROUNDS

Amount appropriated May 15, 1915	$6,000 00
Amount transferred to Maintenance, General Expenses	8 56
	$5,991 44
Amount transferred from Maintenance, General and Forestry	12 05
	$6,003 49

EXPENDED

Mill Pond:		
Pay-rolls	$441 93	
Teaming	51 00	
Loam	59 96	
Filling	132 50	
Sand boxes	62 73	
Apparatus	101 50	
Hardware, tools, etc.	6 19	
Installing meter box	48 90	
		$904 71
Cambridge Field:		
Apparatus	$653 90	
Iron fence	1,823 17	
Pay-rolls	9 00	
Hardware, tools, etc.	6 19	
		2,492 26
Captain's Island:		
Pay-rolls	$1,188 98	
Filling	15 50	
		1,204 48
Ward 10 Playground:		
Fee, landscape gardener		74 30
Sleeper School:		
Fence	$772 33	
Pay-rolls	22 03	
		794 36
Thorndike Field:		
Pay-rolls	$9 00	
Apparatus	101 50	
Hardware, tools, etc.	6 19	
		116 69
Rindge Field:		
Apparatus	$401 50	
Hardware, tools, etc.	6 19	
Pay-rolls	9 00	
		416 69
Total amount expended		$6,003 49
Balance unexpended		$ 00

MAINTENANCE—MEMORIAL FLAG STAFF

Amount of unused balance of 1914 appropriation reappropriated April 16, 1915		$190 49
EXPENDED		
Pay-rolls	$18 33	
Granolithic walks	153 84	
		172 17
Balance unexpended		$18 32

MAINTENANCE—OILING PLAYGROUNDS

Amount appropriated May 15, 1915		$500 00
Amount transferred to Maintenance, General		183 20
		$316 80
EXPENDED		
Oil		$316 80

MAINTENANCE—PLAYGROUNDS

GENERAL EXPENSES

Amount appropriated May 15, 1915		$500 00
Amount transferred from Construction and Equipment		8 56
		$508 56
Amount transferred from Maintenance, Playground Salaries		119 75
		$628 31
EXPENDED		
Car tickets, and hire of cars	$153 00	
Prizes	89 80	
Band for Demonstration Day	66 00	
Hardware, tools, etc	2 38	
Baseballs, bats, etc	166 26	
Raffia, reed, etc	62 81	
Cheese cloth	18 85	
Stationery	15 68	
Hire of chairs	1 50	
Sand	13 78	
Hire of band stand	25 00	
Pay-rolls	8 75	
Metered water	1 50	
Cleaning building	3 00	
		628 31

SALARIES

Amount appropriated June 28, 1915		$3,360 00
Amount transferred to General Expenses		119 75
		$3,240 25
EXPENDED		
Salaries of instructors, etc		3,240 25

SALARIES—PARKS

Amount appropriated May 15, 1915		$3,040 00
EXPENDED		
Salary of General Superintendent	$2,000 00	
Salary of Clerk and Bookkeeper	1,040 00	
		3,040 00

MAINTENANCE—FORESTRY

Amount appropriated May 15, 1915		$16,000 00
Amount transferred March 8, 1916, to Maintenance, General		250 00
		$15,750 00

EXPENDED

BROWN TAIL MOTH EXTERMINATION

Teaming	$57 00	
Pay-rolls	4,142 97	
Arsenate of lead	289 50	
Spraying machine repairs	89 17	
Hose	13 81	
Hardware, tools, etc	40 49	
Advertising	5 39	
Ladders and repairing	73 50	
Rental of garage	16 00	
Horseshoeing	4 83	
Postage stamps	2 00	
Gasoline	25 48	
Medical assistance	2 00	
Creosote	17 85	
		$4,779 99

SHADE TREES

Pay-rolls	$9,127 51	
Tree poles	278 24	
Wire netting	123 75	
Treating Washington Elm	25 00	
Trees	643 50	
Hose for tying young trees	23 91	
Sharpening saws	31 02	
Marline	22 59	
Hardware, tools, etc	87 47	
Teaming	468 00	
Advertising, "Notice to Property Owners"	8 33	
Loam	45 45	
Repairing sidewalks	2 25	
Medical assistance	36 00	
Ladders and repairs	36 01	
		10,959 03
Total amount expended		15,739 02
Balance transferred to Construction and Equipment Playgrounds		$10 98

MAINTENANCE—GENERAL—PARKS

Amount appropriated May 15, 1915		$31,295 00
Amount transferred to Street Department, Maintenance		432 00
		$30,863 00
Amount transferred from Maintenance Forestry, March 8, 1916	$250 00	
Amount transferred from Maintenance, Oiling Playgrounds, March 8, 1916	183 20	
Amount transferred from Library Trustees, March 8, 1916	95 00	
Amount transferred from Reserve Fund, February 17, 1916	60 00	
		588 20
		$31,451 20

EXPENDED

RIVER PARKWAY, SECTIONS A, B, C, D, E, F, G AND H, AND LONGFELLOW PARK

Section A:			
Lighting	$1,558 35		
Signs	4 50		
Catch basins	3 06		
		$1,565 91	
Section B:			
Pay-rolls	$1,345 90		
Lighting	810 64		
Signs	4 50		
Hardware, tools, etc	33 59		
Repairing fence	13 62		
Raft repairs	18 18		
Repairing roadway	161 45		
		2,387 88	
Section C:			
Lighting	$516 70		
Repairing roadway	90 00		
Repairing bridge	28 40		
		635 10	
Section D:			
Repairing roadway	$200 07		
Lighting	531 33		
Pay-rolls	743 93		
Signs	1 50		
Hardware, tools, etc	40		
		1,477 23	
Section E:			
Lighting		246 08	
Section F:			
Lighting		451 25	
Sections G and H:			
Lighting	$471 96		
Pay-rolls	1,558 10		
Granolithic walk	212 60		
Hardware, tools, etc	1 84		
		2,244 50	
Amounts carried forward		$90,007 95	$31,451 20

Amounts brought forward		$90,007 95	$31,451 20
Longfellow Park:			
Pay-rolls	$297 20		
Repairing fence	68 00		
Lighting	2 50		
		367 70	
Total amount expended		$9,375 65	

COMMONS, SQUARES AND PUBLIC GROUNDS

Pay-rolls	$4,541 26	
Lighting	399 88	
Teaming	143 25	
Supplies	142 72	
Grate cover	1 50	
Loam	123 40	
Paint for fences	81 00	
Repairs flagpoles, etc	71 21	
Manure	9 00	
Flags for poles	29 40	
Stakes	39 99	
Lumber, repairs board walks	106 44	
		$5,689 05

CAMBRIDGE FIELD AND SHELTER

The Field

Pay-rolls	$2,326 80	
Lighting	390 99	
Filing saws	1 86	
Hardware, tools, etc	21 97	
Teaming	27 00	
Painting flagpole	31 85	
Oiling field	239 25	
Lumber, repairing board walks	38 31	
Paint for fences	75 00	
	$3,153 03	

The Shelter

Pay-rolls	$2,580 08		
Lighting	103 26		
Laundering towels	98 99		
Toilet paper	31 05		
Repairs	104 33		
Soap	20 58		
Supplies	18 18		
Alterations in building	204 00		
Coal	185 79		
	$3,346 26	$6,499 29	
Amounts carried forward		$21,563 99	$31,451 20

RINDGE FIELD AND SHELTER

The Field

Amounts brought forward		$21,563 99	$31,451 20
Pay-rolls	$1,576 14		
Beach sand	13 09		
Lighting	101 96		
Bases for field	4 90		
Oil for laying dust	49 50		
Cracked stone	10 21		
Repairs	8 29		
Tennis net	6 35		
Supplies	2 16		
Couplings	3 67		
Medical assistance	16 00		
		$1,792 27	

The Shelter

Pay-rolls	$1,690 66		
Lighting	31 79		
Supplies	8 88		
Laundering towels	69 84		
Plumbing repairs	8 28		
Coal	61 60		
Repairing heater	60 00		
		1,931 05	
		$3,723 32	

THORNDIKE FIELD

Pay-rolls	$953 50		
Lighting	74 98		
Oiling field	154 68		
Repairing fountain	14 06		
Supplies	29 90		
Repairing gate	3 51		
		1,230 63	

RUSSELL FIELD

Pay-rolls	$1,298 50		
Repairs and supplies	12 02		
Gas consumed	31 60		
Plumbing repairs	66 74		
Bases for field	4 90		
Laundering towels	13 01		
Roller for field	12 00		
Lime	3 09		
Repairs building	46 75		
Coal	12 54		
Teaming	12 00		
		1,513 15	

FLOATING BATH HOUSE

Pay-rolls	$344 87		
Towing house	70 00		
Repairing house	40 26		
Supplies	2 10		
		457 23	
Amounts carried forward		$28,488 32	$31,451 20

BATH HOUSE

Amounts brought forward		$28,488 32	$31,451 20
Pay-rolls	$1,166 50		
Laundering suits, etc	132 44		
Lighting	69 30		
Repairs	313 83		
Suits	76 50		
Supplies	3 44		
Stationery	13 23		
Medicinal supplies	2 32		
Water on	1 00		
		1,778 56	

GENERAL ACCOUNT

Telephone service	$181 73		
Pay-rolls	37 00		
Auto supplies and repairs	45 42		
Auto tires	88 82		
Horse shoeing	58 84		
Shock absorbers	18 00		
Spring water	11 27		
Kerosene oil	7 00		
Supplies	6 72		
Roller repairs	74 42		
Stationery	61 16		
Binding books	3 75		
Stamps and postal cards	11 50		
Test of ledge	25 00		
Storage of auto	57 50		
Harness repairs and supplies	8 29		
Subscription	5 00		
Exchange of typewriter	65 00		
Wagon repairs	36 44		
Index cards	16 25		
Gasoline	56 31		
Books for dept.	78 60		
Letter heads	25 97		
Car tickets	10 00		
Printing pay-rolls	42 00		
Entertaining committees	106 06		
Trip to Worcester	2 08		
Expressage	2 30		
Medical assistance	2 00		
Numbering machine	13 72		
Directory	4 50		
Stamped envelopes	21 24		
		1,183 89	
Total amount expended			$31,450 77
Balance unexpended			$ 43

Respectfully submitted,

JOHN F. DONNELLY,

General Superintendent of Parks.



Demonstration Day, Russell Field.

REPORT OF SUPERVISOR OF PLAYGROUNDS.

December 31, 1915.

To the Board of Park Commissioners, City of Cambridge:

Gentlemen:

I submit herewith a report of the work on the Cambridge playgrounds during the summer season of 1915.

The work was formally begun on Wednesday, July 7th, and was continued daily, Saturdays and Sundays excepted, until August 27th. During the five years in which the playgrounds have been under municipal supervision, no other season has been marked with so many discouraging handicaps. The appropriation was withheld until a very late date, with a consequent delay in the appointment of teaching staff and in general organization, and was, in itself, so inadequate that the program of activities was necessarily a limited one. As I mentioned in a previous report, the playgrounds are, with one exception, without equipment, and play material must be supplied in reasonably sufficient quantities if any continuous or definite playground work is to be carried on. This supply was wanting during the past season and, aside from the obvious lack of provision for the children, the burden imposed upon the teachers was decidedly unfair.

As in the past two seasons, the "competetive idea" has been adhered to insofar as possible: that is, numbers have been attracted by the organization of a great many team groups on each playground, and interest has been sustained by regularly scheduled dual meets in events largely made up of team contests. In addition to these meets competition was developed in baseball and its modified forms. In all nine leagues were organized with schedules totalling 114 games. Four of these leagues were for girls' playground and squash ball teams and were as successful in every way as the similar schedules arranged for the boys. A pleasing feature of the summer's work in this connection was the development of cordial relations with the playground teams of neighboring cities through inter-city contests between the championship teams in the respective league divisions. Briefly summarized, the activities of the boys were confined to baseball and track and team-game competition, while the girls were af-

forded opportunity for instruction in folk-dancing, occupation work, modified basefall and the milder forms of athletic competition.

The final exhibition of all playground work was given at Russell Field, August 27th, and was witnessed by over 6,000 people. That such a highly successful exhibition could be given, in spite of the fact that a discouragingly large number of rainy days interfered with the preparation, is a tribute to the painstaking efforts of the supervisor of folk-dancing and the work of the teachers generally. With excellent co-operation on the part of the various officials and assistants, the following program was carried through in less than two hours' time.

PROGRAM.

Opening March.

Singing Games.

1. There Was a Little Girl.
2. Comin' Through the Rye.
3. Hark! Hark! The Dogs Do Bark.
4. Swing Song.

Quoit Races.

(a) Sub-Junior Boys.
(b) Junior Girls.

50 Yards Dash. Sub-Junior Boys.
75 Yards Dash. Junior Boys.
100 Yards Dash. Senior Boys.

Folk Dances.

1. Pas d'Espagne.
2. Krakoviak.
3. Finnish Dance.

Quoit Relay Races.

(a) Sub-Junior Boys.
(b) Sub-Junior Girls.

Sack Relay.

Folk Dances.

1. Sweet Kate.
2. Rainbow.
3. Maypole.

Organized Play and Game Period.

The following games will be demonstrated as practised during the season:

(a) Angle Relay.
(b) Straddle Ball.
(c) Jump Rope Relay.
(d) Leap Frog Relay
(e) Jump the Shot.
(f) Wheelbarrow.
(g) Pass Ball.



Demonstration Day, Russell Field.

Relay Races.

(a) Burden.
(b) Girls' Diamond.
(c) Senior Girls.
(d) Senior Boys.
(e) Junior Boys.
(f) Boys' Diamond.

Special Folk Dances.

(a) Dance of Yesterday—Morse School.
(b) Dance of the Zephyrs—Gore and Merrill Playgrounds.
(c) Red, White and Blue—Cambridge Field, Rindge and Thorndike Playgrounds.

Singing of "Star Spangled Banner."

As recommendations for the coming year, I desire to submit the following:

(a) A larger appropriation for general expenses. The material on hand is of little value and much of it will be worth nothing at all after a week's usage. At least $1,000 will be needed if proper play implements are to be supplied.

(b) The immediate development of Mill Pond playground. The city is indebted to the trustees and lessees of the Riverside Alliance Building for much of the success of the work at Mill Pond during the past five summers. Without the use of this building, playground work for girls would have been out of the question and many of the boys' activities would necessarily have been curtailed. No section of the city is in greater need of playground facilities; a recreation building and a field equipment similar in its general provisions to that at Thorndike Field should be placed here as soon as possible.

(c) Separate play areas for boys and girls on the larger playgrounds. The division of schoolyard playgrounds by means of fences is doubtless impracticable but such division on the larger playgrounds could be made at no considerable expense. There is plenty of space for such planning at Cambridge Field and Mill Pond, and the land formerly used as a park nursery offers splendid opportunity for the development of a girls' playground at Rindge Field.

(d) The closing of the Gore School and Fresh Pond playgrounds. Attention has already been called in a previous report to the wretched conditions at Gore School. A small playground is badly needed in this section but the schoolyard is unfit for use as a play area. Much of the work was transferred to Thorndike Field during the past season and better results could be accomplished by a com-

plete transfer than by continuance under handicaps of the present location. At Fresh Pond the attendance was so small that the work there was discontinued after the first few weeks. The present location is too far from the center of population to meet the needs of the Fresh Pond district.

In closing, I desire to express my appreciation of the help given at department headquarters by the Superintendent of Parks and the Secretary of the Board.

Below are the general statistics of the season's work, a financial statement, and an inventory of the supplies stored at Rindge Field.

ATTENDANCE BY WEEKS

Gore School	520	1,120	975	675	495	725	765	545
Thorndike	1,260	4,118	3,768	3,124	1,946	3,076	2,828	1,857
Willard	320	980	1,072	852	488	861	927	415
Fresh Pond	46	284	253	182	81			
Cambridge Field	1,515	3,110	3,565	2,619	1,983	4,105	2,035	1,952
Rindge	1,490	3,270	2,960	2,175	1,180	2,270	2,005	1,480
Merrill	325	914	703	569	393	497	485	540
Morse	267	471	472	399	273	379	420	303
Broadway	305	657	730	538	543	724	373	482
Mill Pond	1,023	2,000	2,455	2,385	1,370	2,315	2,173	1,755
	*7,071	16,924	16,953	13,518	8,752	14,952	12,011	9,329

*During the week ending July 9, playground sessions were held on two days only.

Total attendance 99,510

TEACHING STAFF

Superintendent	Pianist	5 Masters
Assistant Superintendent	10 Teachers	4 Submasters
Special Teacher for Dancing	18 Assistant Teachers	

FINANCIAL STATEMENT

Appropriated for salaries	$3,360 00	
Expended for salaries	3,240 25	
Balance	$119 75	
Appropriated for general expenses	500 00	
Transfer from salaries	119 75	
Total appropriated, salaries and general expenses		$3,860 00
General expenses as follows:		
Athletic supplies, bats, balls, etc	$163 52	
Prizes, fobs	40 00	
Prizes, jerseys and middy blouses	49 80	
Amounts carried forward	$253 32	$3,860 00



Demonstration Day, Russell Field.

Amounts brought forward	$253 32	$3,860 00
Music, demonstration day	66 00	
Special cars, demonstration day	63 00	
Car tickets, leagues, demonstration	90 00	
Hardware	2 38	
Hire of bandstand	25 00	
Sand	13 78	
Chairs for demonstration day	1 50	
Reed, raffia and occupation material	62 81	
Printing	15 68	
Cleaning Alliance Building	3 00	
Water rates, Alliance Building	1 50	
Cheese cloth, maypoles and costumes	19 69	
Checkers and jackstones	1 90	
Total	$619 56	
Expended for salaries	3,240 25	
Total expended, salaries and general expenses		$3,859 81
Balance		$0 19

Supplies stored at Rindge Field:

22 Playground Bats.
8 Senior Bats.
8 Junior Bats.
51 Volley Ball Covers.
10 Masks.
8 Catcher's Gloves.
8 First Baseman's Gloves.
17 Fielder's Gloves (7 new).
23 Senior Baseballs.
19 Junior Baseballs.
74 Playground Bases.
25 Sets Quoits.

Respectfully submitted,

TIMOTHY F. DOWNEY,
Supervisor of Playgrounds.

REPORT OF THE SANDERS TEMPERANCE FUND.

This board respectfully submits its sixtieth annual report for the municipal year April 1, 1915 to December 31, 1915.

James Hicks, Missionary employed in agreement with the provisions of the will of Charles Sanders, died on January 17, 1916. Up to the time of his death he carried on the work with his usual discretion and zeal and was instrumental in turning many victims of intemperance into paths which brought happiness and contentment to themselves and their families.

He was especially fitted for the duties of Missionary and his faithful and unselfish earnestness was appreciated by the Trustees.

His report of the work, usually given in detail will be omitted this year.

TIMOTHY W. GOOD,
PETER J. NELLIGAN,
ARTHUR S. BROWNE.

REPORT OF THE TRUSTEES OF THE CAMBRIDGE PUBLIC LIBRARY.

March 31, 1916.

To the Honorable, the City Council of the City of Cambridge.

Gentlemen:—

The Board of Trustees of the Cambridge Public Library present herewith their fifty-eighth annual report which covers the fiscal year ending March 31, 1916.

The year has been one of notable expansion in the field of the library's activities, and has seen the establishment of branch libraries at Cambridge Field and at Mount Auburn. The immediate response on the part of the public with which this extension of the work of the library has met is extremely encouraging, and it is particularly worthy of remark that each of these new branches, like the branch at Central Square, has developed so large a body of new readers that there has been little or no decrease in the circulation of the libraries which had already been established. On the contrary, there has been an increase in the circulation of the Central Library, and there have been large gains in the number of volumes issued through the Cambridgeport and North Cambridge Branch Libraries.

Only the most economical management of funds made the equipment and maintenance of the new branches possible on the small appropriations which the administration of the library felt justified in asking, and the Trustees are planning for next year such a distribution of expenses as they hope may enable them to carry on the new work without increasing the amount of the library budget. The furnishings and quarters of the branch libraries are now in excellent condition. At the Central Library certain changes and additions to equipment are desirable, and certain repairs, largely connected with the perennial difficulties resulting from the original construction of the roofs, are inevitable.

The grounds about the library building urgently demand attention. To this matter the Trustees again recommend that prompt consideration be given, and this year, as in several previous years, they venture to urge that such provision may be made as will enable the Park

Department to bring back to a more normal condition the badly widened and sunken paths, and to substitute granolithic walks for the board walks which must be laid each fall and removed each spring at considerable expense, and which despite frequent repairs are a menace to public safety. More adequate lighting of the adjoining streets, on which the Latin and Rindge Technical Schools are located, is also greatly to be desired.

A detailed statement of the work of the library accomplished during the past year will be found in the report of the Librarian which is appended, and which the Trustees feel sure makes clear the fact that no effort has been spared to meet—so for as funds permitted—the needs of the citizens as a whole.

The Trustees take satisfaction in pointing out the recent great increases in the circulation of the Library as evidence of the larger service which the Library is rendering to the community, and they beg to call to the particular notice of the City Council that portion of the report which deals more specifically, under the heading of Administration with the general plan of re-adjustment and re-organization which has enabled the Library to so greatly enlarge its sphere of usefulness wthout requiring any corresponding increase in expenditures.

Respectfully submitted,

EDWARD P. COLLIER,
WILLIAM J. BARRY,
JOHN E. SOMERS,
THOMAS F. ATKINSON,

For the Trustees.

REPORT OF THE LIBRARIAN.

Cambridge, Mass., March 25, 1916.

To the Board of Trustees.

Gentlemen:—

During the year ending March 24, 1916, there were issued to borrowers 385,169 volumes. Of this number 149,620 were issued through the Central Library, 82,398 and 48,614 through the branch libraries at North Cambridge and at East Cambridge, 61,670 through the Cambridgeport Branch, and, in the months during which they have been established, 20,255 and 8,395 through the branches at Cambridge Field and Mount Auburn respectively. Through the several grammar schools of the city to which books are sent 14,826 volumes were loaned. Approximately one thousand books were charged through the local department for circulation at delivery and deposit stations, and there were issued from the stacks at the Central Library through the Reference Department for use in the library building, 13,632 volumes, marking the largest use of books through this channel ever recorded.

On March 24, 1915, I reported, as compared with the statistics of the previous year, an increase of 55,157 in the number of volumes borrowed through the Central Library and its branches. That increase represented the greatest gain occurring in any year since the foundation of the library in 1858. To that increase we have this year added gains of 31,167 volumes, making a total increase in two years of 86,324.

BOOKS.

There are now in the possession of the library, including books belonging to the school loan collections, 113,314 volumes. Of these 89,466 are at the Central Library, 7,005 at the North Cambridge Branch, 6,110 at the East Cambridge Branch, 5,491 at the Cambridgeport Branch, 2,776 at the branch at Cambridge Field, and 2,466 at the branch at Mount Auburn.

During the year there were added to the central and branch libraries 10,408 books, exceeding by several thousand volumes the number acquired in any previous year in the history of the library.

Including new and replaced titles, there were added to the Central Library 4,246 volumes, to the North Cambridge Branch 1,280, to the East Cambridge Branch 827, and to the Cambridgeport Branch 936. Of the volumes at the Cambridge Field Branch 1,543 are new books, the others having been transferred from other collections. Of those at the Mount Auburn Branch 1,577 were newly purchased, the remainder representing duplicate volumes transferred from the central library and from the older branch libraries.

Notable among the books bought during the year are the publications of the American Academy of Political and Social Science, completing our files from 1902, more than one hundred volumes of the International Library of Technology, the new Encyclopedia of Religion and Ethics, and three sets of the latest edition of the New International Encyclopedia, which have been added to the collections of the Central Library and of the North Cambridge and Cambridgeport Branches. The older editions which we had at the Central Library and at North Cambrdge we have transferred to the new branches at Mount Auburn and Cambridge Field. Considerable additions have been made to the literature dealing with business and with industrial management; and the library's collections are now very fairly representative of the best books which have appeared in the field of commerce and industry.

There were bound during the year 4,351 volumes, and practically all the books of the library are now in excellent condition. To keep them so requires, of course, constant work and supervision, and we are sparing no effort to insure each book's giving the maximum of service. Repairs are carefully and promptly made, and all new books, in order that the bindings may not be broken through not being properly opened the first time, are opened systematically by the library assistants before they are placed in circulation. The experiment of varnishing all new bindings to insure them against soil and to protect the freshness of their lettering, has been found productive of excellent results, and has become part of the established procedure.

We have tried, too, in various ways, to extend the usefulness of the library's collections. Besides continuing to send regularly to the Cambridge newspapers lists of new acquisitions, we have selected lists of special interest to musicians, home builders, and business men. We have published an attractive pamphlet entitled "Europe Today and Yesterday," containing books of special interest in connection with the present great conflict of nations, and including works

on international law and politics, military, naval and aerial science, and books of history and travel dealing with the several countries of Europe. In order to bring opportunely to the notice of the public the special material contained in its collections, and as earnest of its interest in the educational purposes to which the week of March 4 was this year devoted, the library printed and distributed a brief list of books treating of the care and development of children. To the Health Exhibit, held at the building of the Young Men's Christian Association during the week of October 11, last, the library sent a carefully chosen collection of books on exercise, diet and hygiene. Regarding the collection, the director, Mr. John W. Waters, wrote that it had created a great deal of interest among the thirty-five hundred people who attended the exhibit, and that one of the physicians of the State Board of Health had found the books selected of sufficient interest and value to warrant his asking for a list of the volumes for use in connection with his work.

The number of books catalogued this year was extraordinarily large, including as it did not merely the books purchased for the central library and the three older branches, but also the several thousand volumes bought for the new branch libraries. Considerable progress, too, has been made in the compilation of a special index to the library's collection of music, additions to which have been made with the advice of an extremely well-informed and musicianly committee comprising Mr. William J. E. Sander, Dr. George Thornton Page, Mr. Benedict FitzGerald, Mr. Henry F. Gilbert and Mrs. Byron S. Hurlbut, to the generosity of whose father, the late James A. Woolson, the library is indebted for the fund from which its works of music are purchased.

That so great a volume of work has been possible of accomplishment without adding to the regular cataloging staff had been due in part to the re-organization of the work outlined in my last annual report, and in great measure to the adoption toward the end of last year at the suggestion of the assistant librarian, under whose immediate direction the cataloging is done, of the so-called union shelf-list, which requires at the Central Library but one card for each book added to the branches. How great a saving of time and labor this represents becomes immediately obvious on consideration of the fact that under the old system we should have been obliged to type, number, revise and file five cards where now only one card is necessary.

THE NEW BRANCHES.

The outstanding feature of the year's work has, of course, been the opening on October 4 of the branch library at Cambridge Field, and, on October 15, of the branch library at Mount Auburn. Though the establishment of branches in these districts was eminently desirable the administration of the library was eager to avoid placing any considerable financial burden on the city, and therefore asked for but one thousand dollars for the equipment and maintenance of the branch at Mount Auburn, and two thousand dollars for that of the branch at Cambridge Field. Since these amounts were to cover not merely the purchase of books and furnishings, but also the expenses of salaries and maintenance, the most careful financing was clearly necessary.

The problem was successfully solved, however, and both branches are now substantially, harmoniously, even beautifully furnished. They are both equipped with simple yet dignified bookcases containing carefully selected books in many fields of interest and information, with attractive chairs of excellent construction, and with quartered-oak reading tables, charging cases, catalogue cabinets and attendant's desks.

Fortunately the quarters in the new school house in the Mount Auburn district required no structural changes, and we have been able to place on the walls a series of pictures of great beauty and distinction. For both branches there were required, of course, minor expenditures of which the aggregate was considerable, for such accessories as charging stamps, desk pads, inkstands, pens, pencils, scissors, waste-baskets, rulers, book-plates, printed pay-rolls, registration forms, borrowers' cards and magazine folders; and at Cambridge Field there were such major expenses as those involved in the installation of an adequate lighting system, the re-locating of radiators, the washing of walls and refinishing of woodwork, the construction of a double door, and in the assumption of one-half the cost of opening an entrance from the outside of the building to the men's toilet rooms, so as to obviate the need of entering them through the library quarters.

That we should have been able from funds so limited to meet these expenses and secure permanent equipment of so substantial and attractive a character, and yet find money for maintenance and for the acquisition of collections of books so varied and valuable,

even though necessarily incomplete, constitutes fair ground for felicitation. There is cause for congratulation, too, in the generous return on the investment involved which the work of the new branches has already guaranteed.

BUILDING AND EQUIPMENT.

Although those for the new branches were the chief items of expense for building and equipment there were other necessary expenditures of this nature at the Central Library. The doors and porches of the main and children's entrances were refinished, and the doors between the newspaper room and the librarian's office were remodelled so as to permit of their being easily closed, thus insuring to the librarian the privacy requisite for the work of the library and to readers freedom from the annoyance of noise inevitably incidental to its accomplishment. In order that the women assistants might no longer be obliged to use the public toilet room, necessary facilities have been installed for them in the basement. The supplies have been removed from the room over the main entrance to the library, the floor, ceiling and woodwork of which have been refinished. The walls have been painted and hung with certain woodcuts and etchings which were given to the library many years ago but which had never been framed. Two electric chandeliers stored in the garret at the North Cambridge Branch have been reburnished and hung, and the room, which is large and well proportioned, already presents an exceedingly attractive appearance.

With a small additional outlay for furnishing it we shall have a room suited for the purposes of a small auditorium where meetings of the staff, the children's story hour, and exhibits at Christmas time of the best books for children in editions of varying cost may be held.

During the summer the basements and the first floor of the stack room were given a greatly needed coat of paint, and the boilers were equipped with special valves approved by the State Police Department, so that in case of emergency they can be operated by other than licensed engineers.

Of the several oak cases removed from the old supply room, two have been placed in the basement to hold the various supplies required in the work of the library, and a third has been sent to the North Cambridge Branch to furnish needed space for the shelving of books.

New chairs which will obviate constant expenditures for re-seating have been bought for the newspaper room and old chairs of oak which were unused in the lumber room have been re-glued and refinished for the local history room to replace the bent-wood chairs which were so frequently in need of repairs. For the catalogue room we have bought a new clock and new swivel desk chair, and for the children's room a Medici print of the Sistine Madonna in a beautifully designed architectural frame.

Because of the great amount of typewriting and correspondence, growing out of the increase within two years of the number of branch libraries from two to five, it has been necessary to purchase a new typewriter for the Central Library. The old machine at the North Cambridge Branch has been exchanged for one of the latest model. To the equipment of that branch there have been such other minor additions as a clock which can be relied upon, shelves which will make closets and desk cupboards of greater utility, and a charging tray of a more efficient type than that previously in use. Several lengths of rubber matting have been the only purchase necessary in the way of equipment for the branch at East Cambridge. For the Cambridgeport Branch we have bought an awning to protect the attendant's desk and work-bench from the glare of the sunlight in summer, a larger catalogue case and stand, a larger charging tray, a larger registration and filing cabinet and an additional book-case to meet the requirements of the increasing number of books and the growing circulation of the branch.

GIFTS.

A legacy of three thousand dollars, payable Jan. 3, 1917, has been left to the library, without restrictions, under the will of the late Abigail W. Howe, and gifts of books have been received from the American Association for International Conciliation, American Humane Educational Society, American Institute of Electrical Engineers, American Irish Historical Society, American Jewish Committee, American Printing House for the Blind, Louisville, Ky., Amerika-Institut, Berlin, P. Andreae, Associated Factory Mutual Fire Insurance Company, Bartlett Publishing Company, Charles F. Beals, Josiah Henry Benton, Catherine Bond, Boston Public Library, Boston Chamber of Commerce, Boston Transit Commission, Emma E. Brown, Bunker Hill Monument Association, City of Cambridge,

Mass., Canada Department of the Interior, Carnegie Endowment for International Peace, Carnegie Foundation for the Advancement of Teaching, Carnegie Hero Fund Commission, Carnegie Institute of Pittsburgh, Chicago Association of Commerce, Church Peace Union, Mrs. Collet, M. J. D., Miss Elizabeth Dana, D. A. R. Members of Hannah Winthrop Chapter, Mrs. Lee Parker Dean, District of Columbia, M. W. D. Dunton Co., E. P. Dutton & Co., Fleischmann Company, Francis Apthorp Foster, G. A. R., Henry F. Gilbert, Great Britain Foreign Office, Miss Virginia Hall, Harvard University, T. W. Higginson Estate, Hinds, Noble & Eldredge, Charles Nevers Holmes, Brig. Gen. Richard L. Hoxie, John H. Hubbard, Illinois General Assembly, Illinois State Historical Library, Japan Society, John Crerar Library, Louise Jerome Johnson, A. C. Lane, Mrs. Thomas A. Lawton, Alice M. Lincoln, Longmans, Green & Company, Commonwealth of Massachusetts, Massachusetts Library Club, Middlesex County Commissioners, Moody Magazine Company, Murray and Emery Company, Michigan State Library, National Automobile Chamber of Commerce, Anna Marie Neis, Nelson Chesman & Company, New Salem Academy, New York City, New York Public Library, New York State Library, New York Stock Exchange, Ralph H. North, O. W. Norton, Sara Norton, Panama-Pacific International Exposition, Silas Pierce & Company, A. A. Pomeroy, Pringle Publishing Company, Providence, R. I. Record Commissioners, John P. Putnam, Mary E. Rand, J. D. Rockefeller, Mary Rogers, Porter E. Sargent, Rev. M. K. Schermerhorn, Miss T. Sedgwick, A. W. Shaw Company, Small, Maynard & Company, E. F. Smith, F. R. Kendrick Smith, Smithsonian Institution, Sons of American Revolution, Massachusetts Society, William H. Spencer, Rose C. Therault, Ernest W. Thompson, S. Thompson, *United States*—Adjutants General's Office, Bureau of the Census, Civil Service Commission, Coast Guard, Department of Commerce, Superintendent of Documents, Bureau of Education, Department of the Interior, Interstate Commerce Commission, Department of Labor, Library of Congress, Patent Office, Bureau of Statistics, War Department, United States Brewers' Association, University of Pennsylvania, Mrs. Benjamin Vaughan, Dr. Paolo de Vecchi, Theodore J. Venn, Washburn-Crosby Company, Rev. E. O. Wasson, Mary Woodman, Worcester, Mass., World Peace Foundation, S. Alice Worcester, Yale University, M. H. de Young, Young Churchman Company.

CHILDREN AND SCHOOLS.

That there were issued during the year 135,719 books for children is gratifying evidence that the constant effort of the library to meet their needs and interests is fruitful of results, and gives good ground for the hope that we are forming a citizenry accustomed to the use of books and learning how to gain from them the large measure of profit and of happiness which they so well can yield.

Far more rapidly than it seemed probable our limited funds would permit, we have been able to proceed with the reorganization of the school loan collections. Although a year ago they contained almost none of the classic works in English literature for children they already begin to be fairly representative of the best of the books for boys and girls. We have added to them this year twenty copies of each of the following standard works: Stevenson's "Child's Garden of Verses," "Treasure Island," and "Kidnapped," Lamb's "Tales from Shakespeare," Kingsley's "Water Babies," Hawthorne's "Wonder Book" and "Twice Told Tales," Defoe's "Robinson Crusoe," Wyss's "Swiss Family Robinson," Dana's "Two Years Before the Mast," Cooper's "Pathfinder, "Prairie," Pioneers" and "Last of the Mohicans," Alcott's "Little Men" and "Little Women," Swift's "Gulliver's Travels," Scott's "Ivanhoe," Stowe's "Uncle Tom's Cabin," Andrew Lang's Red and Blue Fairy Books, Canton's "Child's Book of Saints," Lewis Carrol's "Alice's Adventure in Wonderland" and his "Through the Looking Glass."

In the Macmillan Company's new series of True Stories of Great Americans we have added twenty copies of the biographies of Captain John Smith, Franklin, Fulton, Edison, Columbus, Penn, Crockett and Lee, and in the delightful Ben Greet edition, intelligently and reverently arranged for younger readers and for amateur players, twenty copies of Shakespeare's "Tempest," "Merchant of Venice," "Julius Cæsar," "As You Like It" and "Midsummer Night's Dream."

All of the books included in the Children's Department of the Central Library which are contained in the interesting list entitled "Books Boys Like Best," compiled by the Library Commission of the Boy Scouts of America with the assistance of this and other libraries, have been added to the juvenile collections of the several Branches. The children's books at the newer branches have been very carefully chosen, and we have begun to standardize the collections at the older

branches by eliminating books of lesser worth and substituting for them those of greater educational and literary value.

The several hundred photographs which the children are allowed to use at the library in the sterescopes provided for them have all been cleaned and filed in substantial boxes carrying identifying titles, the sterescopes have been repaired, and such distribution has been made of them as to meet, without incurring further expenditures, the needs of two additional branches.

As occasion permitted, we have co-operated with the schools, not merely by sending them in the school collections many hundreds of books adapted for collateral reading, but in other and less routine, even though smaller, ways. For example, we have aided the Department of English of the Rindge Technical School in the selection of books for its Freshman, Sophomore, Junior and Senior classes, and have supplied for the use of its pupils copies of such technical magazines as are not needed for the permanent files of the library.

To the principal and teachers of that school for their help in designing and constructing signs to be placed at the new branches, and to the principals and teachers of the various other schools for their interest in the work of the library, and for their co-operation in circulating among their pupils the several thousand books which the library sends to the schools each year, we are obliged and grateful.

ADMINISTRATION.

In my report of last year I stated that the detail of the work of the Central Library had been very carefully re-organized and re-adjusted so as to permit of its being carried forward in a more workmanlike manner and under more constant supervision. I suggested then that the profitableness of this re-organization was perhaps sufficiently attested by the fact that despite the increase in the work of the Central Library inevitably resulting from the establishment of the branch library at Central Square, we had been able to accomplish it with one assistant less than had been accredited to the Central Library during any year since 1907. How considerable an addition to the work of the Central Library each new branch library entails becomes evident on consideration of the fact that all changes and repairs to buildings, furnishings and equipment are arranged and supervised from the Central Library, that all supplies are purchased and distributed there, that all correspondence, and all orders for new books and for the replacement of books worn out and discarded are handled

there, that all bills of whatever nature are approved, prepared for payment and recorded there, and that every new or replaced volume is first sent there in order that the edition and price may be verified and the invoice checked before the bill is paid, and in order that the book may be properly assigned and catalogued.

This year, with the establishment of the branch libraries at Mount Auburn and at Cambridge Field, and with the increase in the number of branches from two to five in less than two years, the work of re-organization has been subjected to an even severer test. That test it has stood with entire success, however, and we look forward confidently to being able to carry the present work of the Central Library with the existing staff.

Of the re-arrangement of the work at the branch libraries it may be enough to say that though since January, 1914, we have increased the number of assistants employed by the library as a whole by only two members, within that period the number of hours during which the library is serving the public at various points has been increased by 147 hours a week or 7,644 hours annually, of which 6,708 are covered by the regular staff.

For the splendid interest in the work of the library constantly manifested by the staff as a whole, and for the encouragement which the Trustees have invariably given me in such generous measure I gladly express my gratitude and appreciation.

Respectfully submitted,

(Signed) M. R. COPITHORNE,

Librarian.

APPENDIX.

EXPENDITURES FROM CITY APPROPRIATION

CENTRAL LIBRARY

Salaries

Appropriation (by transfer increased $78.02 from $13,905.25) ...	$13,983 27
Expended	13,983 27

General Expenses

Appropriation (by transfer decreased $78.02 from $9,965.00)	$9,886 98

EXPENDITURES

Binding	$900 40	
Books, new	2,621 27	
" school	259 53	
" replaced (total)	1,142 48	
Periodicals	613 32	
Fuel	812 93	
Equipment	867 87	
Incidentals	98 33	
Lighting	499 11	
Local stations	235 50	
Printing, postage and stationery.....	880 81	
Repairs	390 33	
Telephone	113 90	
		9,435 78
Amount unexpended		$451 20

EAST CAMBRIDGE BRANCH LIBRARY

Salaries

Appropriation (by transfer increased $5.54 from $1,559.00)	$1,564 54
Expended	1,564 54

General Expenses

Appropriation (by transfer decreased $5.54 from $2,104.00)	$2,098 46

EXPENDITURES

Binding	$130 37	
Books, new	1,480 87	
" replaced	92 58	
Periodicals	63 60	
Equipment	84 40	
Lighting	141 91	
Printing, postage and stationery.....	81 00	
Repairs	25	
Telephone	23 33	
		2,098 31
Amount unexpended		$ 15

NORTH CAMBRIDGE BRANCH LIBRARY

Salaries

Appropriatioin (by transfer increased $6.26 from $2,381.66)....	$2,387 92
Expended	2,387 92

General Expenses

Appropriation (by transfer decreased $6.26 from $2,134.00)....	$2,127 74

EXPENDITURES

Binding	$249 87	
Books, new	1,234 96	
" replaced	132 36	
Periodicals	125 85	
Equipment	127 25	
Incidentals	1 79	
Lighting	138 34	
Printing, postage and stationery.....	94 09	
Repairs	1 35	
Telephone	21 78	
		2,127 64
Amount unexpended		$ 10

CAMBRIDGEPORT BRANCH LIBRARY

Salaries

Appropriation (by transfer increased $58.34 from $1,443.00)....	$1,501 34
Expended	1,501 34

General Expenses

Appropriation (by transfer decreased $58.34 from $2,539.00)...	$2,480 66

EXPENDITURES

Binding	$215 05	
Books, new	983 70	
" replaced	225 47	
Periodicals	93 57	
Equipment	79 15	
Incidentals	1 23	
Insurance	18 00	
Lighting	98 01	
Printing, postage and stationery.....	79 60	
Rent	660 00	
Repairs	3 15	
Telephone	23 30	
		2,480 23
Amount unexpended		$ 43

CAMBRIDGE FIELD BRANCH LIBRARY

Salaries and General Expenses

Appropriation		$2,000 00
EXPENDITURES		
Salaries	$510 75	
Binding	6 85	
Books, new	217 27	
Periodicals	32 46	
Equipment	1,111 00	
Insurance	15 00	
Lighting	45 50	
Printing, postage and stationery	60 66	
		1,999 49
Amount unexpended		$ 51

MOUNT AUBURN BRANCH LIBRARY

Salaries and General Expenses

Appropriation		$1,000 00
EXPENDITURES		
Salaries	$251 51	
Binding	1 03	
Books, new	176 54	
Periodicals	32 46	
Equipment	475 55	
Insurance	10 00	
Printing, postage and stationery	52 35	
		999 44
Amount unexpended		$ 56

Summary of the report of the Treasurer of the Board of Trustees from March 31, 1915, to March 21, 1916, will be found in the report of the City Auditor.

REPORT OF SEALER OF WEIGHTS AND MEASURES.

OFFICE OF THE SEALER OF WEIGHTS AND MEASURES
BRATTLE SQUARE, CAMBRIDGE, MASS.
APRIL 14, 1916.

To the Honorable the City Council of the City of Cambridge.

In compliance with the City Ordinance I respectfully submit a report for the Department of Weights and Measures for the year ending March 31, 1916.

Appropriation		$5,000 00
EXPENDED		
Salaries:		
Felix C. McBride	$1,300 00	
Emery F. Morris	1,000 00	
Hugh H. Healey	1,100 00	
Joseph O'Neil	1,000 00	
Assistants:		
John D. Finnegan	117 00	
Transfers to General Ex	158 12	
Transfers to Reserved Fund	300 00	
		4,975 12
Appropriation		$958 12
EXPENDED		
General Expenses:		
Care of horse:		
Street Department for board	$216 00	
Street Department for shoeing	10 08	
T. Hickey, for shoeing	17 00	
L. A. Stingel, hardware	7 01	
Acme Secil Co., dies	2 75	
H. Pill & Bros., hardware	4 03	
Shea Bros., printing	22 05	
City Messenger Department, stamps	8 00	
W. B. Lemcool, Tel. support	5 00	
Cambridge Sentinel, adv	9 80	
Warren Bros., tar paper	2 45	
F. C. McBride, reg. of auto	10 00	
Manuel F. Silva, gas can and safe-device	10 29	
Edwin B. Sage, sundries	84	
A. W. Brownell, seals	10 78	
E. L. Grimes Co., annual report	9 12	
Moore & Hadley, hardware	5 08	
The Texas Co., oil	7 35	

Harvard Co-op. Soc., sundries	1 34	
Owen Doherty, rep. on harness	12 45	
Edward Barker, rep. on scale	22 35	
T. H. Kneeland, rep. on wagon	26 37	
Geo. W. Gale, lumber	13 20	
Harvard Automobile Co., stabling, gas and repairs	325 58	
Holton & Williams, red innertube	2 94	
McGregor, garage show, innertube and gas	12 95	
Cuastic-Claflin, books	20 18	
Miss Littlefield, annual report	3 29	
Geo. E. Marsters, tickets to New York convention, board and room	34 79	
Boston Elevated Railway, car tickets	40 00	
New Eng. Tel. & Tel. Co., service	23 89	
John E. Morgan, innertube	2 80	
W. & L. E. Gurley, dies	5 47	
		905 23
Amount unexpended		$52 89
Appropriation		$5,800 00
Expenditures		5,722 23
Amount unexpended		$77 77

REVENUE

Fees for sealing	$667 22	
Fees for adjusting	55 48	
Total revenue	$722 70	
Total amount expended		$5,722 23
Total amount collected		722 70
Net expense of department		$4,999 53
Estimate of revenue		800 00

TESTS MADE AT OFFICE FOR YEAR ENDING MARCH 31, 1916

Scales sealed	943	
Scales adjusted	49	
Scales condemned	18	
		1,010
Weights sealed	780	
Weights adjusted	19	
Weights condemned	32	
		831
Dry measures sealed	249	
Liquid measures sealed	1,184	
Liquid measures adjusted	71	
Liquid measures condemned	19	
		1,523
Ice cream measures	3	
Sealed	32,820	
Adjusted	84	
Condemned	47	
		32,951
Total numbers of tests made at office		36,315

TESTS MADE OUTSIDE OFFICE FOR YEAR ENDING MARCH 31, 1916

Scales sealed	3,672	
Scales adjusted	519	
Scales condemned	142	
		4,333
Weights sealed	6,985	
Weights adjusted	236	
Weights condemned	97	
		7,318
Dry measures sealed	620	
Dry measures condemned	29	
		649
Liquid measures sealed	3,318	
Liquid measures adjusted	19	
Liquid measures condemned	82	
		3,419
Oil pumps sealed	108	
Oil pumps condemned	14	
		122
Yard measures sealed	242	
Yard measures condemned	29	
		251
Platform scales 5,000 lbs. capacity	79	
Platform scales less than 5,000 lbs. capacity	716	
Slot weighing scales sealed	108	
Slot weighing scales condemned	7	
25 lb. bags of coal tested	1,388	
		2,298

Tests made in stores	2,548
Tests made on street peddlers	1,989
Total number of tests made outside of office	22,927
Total number of tests made at office	36,242
Total number of tests made	69,169

WEIGHTS AND MEASURES DEPARTMENT

Inventory of Property

Standards furnished by the Commonwealth

1 Balance—5 grains to 100 lbs.
1 Set (5) Avoirdupois Weights, 50 lb.; 25-lb.; 5-lb.
1 Set (11) Avoirdupois Weights, 4-lb. to 1-16-oz.
1 Killogramme in case.
1 Steel Meter in case.
1 Brass Yard Measure.
1 Set (5) Iron Dry Measures, 1/2 bush. to 1 quart.
1 Set (6) Iron Liquid Measures, 1 gallon to 1 gill.

1 Roll top desk.
1 Black walnut desk.
5 Chairs.
1 Table.
1 Clothes press.
1 Scale cabinet.
1 Wooden cabinet.
2 Benches.
1 Sink.
5 Mats.
1 Set revised laws.
1 Set card records—oak case.
1 Set card index—oak case.
1 Hektograph.
1 Letter press.
1 Blotter bath.

Miscellaneous books	$200 00
1 Bay horse	225 00
1 Express wagon	100 00
1 Light wagon	85 00
1 Pung	23 00
2 Harnesses	70 00
3 Plush robes	24 00
1 Stable blanket	2 00
1 Rain blanket	2 00
1 Woolen blanket	8 00
1 Halter	75
1 Hitch weight	50
1 Balance scale	88 69
1 Platform scale 1/2 to 2,500 lbs	75 00
1 Folding platform scale, 1-4 lb. to 600 lbs	30 90
1 Balance 1-10 milligramme to 500 grammes	35 00
1 Balance, 1-50 grain to 1-2 lb	15 00
1 Sealer's balance, 1 grain to 100 lbs	150 00
2 Leather tool bags	9 50
1 Sealer's balance, 1 grain to 8 lbs	50 00

1 Spring scale, 1 lb. to 125 lbs	1 00
2 Sealer's trip scales (not used)	5 00
2 Sets (19) Avoirdupois weights, 4 lbs. to 1-8 oz	10 00
1 Set (9) Troy weights 16 oz. to 1-8 oz	3 00
1 Set (13) Metric weights, 1 kilo to 1 gramme	5 00
5 boxes miscellaneous weights (not standardized)	10 00
1 Set (3) Iron weights, 25-lb., 10-lb., 5-lb	5 00
40 50-lb. weights	100 00
1 Arch	2 00
3 Glass graduates	1 00
1 Automobile	496 40
1 Set (21) grain weights, 1,000 gr. to 1-1000 gr	13 50
1 Set (21) metric weights, 50 gramme to 1-10	13 50
1 Set (5) copper dry measures 1/2 bushel to 1 quart	45 00
1 Set (3) brass dry measures, 1 quart to 1/2 pint	5 00
2 Sets (14) copper liquid measures, 1 gal. to 1 gill	30 00
1 Yard measure	1 50
1 Iron truck	5 00
1 5-gal. copper measure	15 00
1 Steel tape	10 00
1 Pair of inside calipers	3 50
1 Set brands	3 00
1 Plumber's furnace	6 00
Miscellaneous tools	50 00
1 Wagon scale (Lechmere Square)	400 00
1 Wagon scale (Porter Road)	400 00
	$2,788 27

COMPLAINT AND PROSECUTIONS

This department is always pleased to receive complaints which are regarded as confidential and they are investigated to determine their individual merit. This department has caused seven persons to be summoned to court for violations of laws relating to short weight and measure and convictions and fines amounting to $65 have been paid.

INSPECTION

Until recently the testing and sealing of weights and measures devices was practically the only work required of a sealer—but subsequent developments have proven conclusively that frequent inspections are a very important branch of the work.

I wish at this time to thank Emery T. Morris, Hugh H. Healey and Joseph O'Neil for their valuable assistance and hearty cooperation.

Respectfully submitted,

FELIX C. McBRIDE,
Sealer of Weights and Measures.

REPORT OF THE CHIEF OF THE FIRE DEPARTMENT.

Chief of Department Office,
Cambridge, April, 1916.

To the Honorable, the Mayor and City Council:

Gentlemen:—I herewith submit a report for the fiscal year ending March 31, 1916.

The department as organized consists of (7) seven steam engine Companies, (2) two chemical engine companies, (4) four ladder companies, one of which has in connection with it a combination hose and chemical wagon.

MANUAL FORCE.

The required membership is one hundred and thirteen (113) permanent men and (21) twenty-one call men. Eight of these men have not been assigned to duty.

APPARATUS.

The department has seven (7) steam engines and hose wagons to run with them, seven (7) fuel wagons, one (1) spare hose wagon, two (2) chemical engines, one (1) combination hose and chemical wagon, four (4) ladder trucks, and one (1) spare ladder truck, twenty-nine (29) hand extinguishers distributed on the several pieces of apparatus, one (1) supply wagon, one (1) Chief's automobile, and one (1) Chief's wagon. A description of each apparatus is given in the roster of the department.

HOSE.

There are 17.150 feet of two and one-half inch cotton rubber-lined hose in good condition; 200 feet of two-inch cotton rubber-lined hose, and 1,350 feet of three-fourths-inch chemical hose.

HORSES.

There are forty-seven (47) horses in service. Some of the older horses will soon have to be disposed of and new ones purchased.

ROSTER OF THE FIRE DIVISION
April 1, 1915

CHIEFS

Name	Rank	Residence
Nathaniel W. Bunker	Chief	5 Ashton Place.
James M. Casey	Deputy Chief	353 Huron Avenue.

AIDS

No. of Badge	Name	Rank	Residence
1	William J. Atkinson	Lieutenant	40 Granville Road.
100	James J. Clifford	Chief's Clerk	482 Huron Avenue.

ENGINE CO. NO. 1

First size Amoskeag engine drawn by three horses, capacity 900 gallons a minute; has been in service since 1883. New boiler, 1912. Hose wagon drawn by two horses, with 800 feet of hose.

No. of Badge	Name	Rank	Residence
5	Daniel E. Shea	Captain	65 Putnam Avenue
131	Richard J. Doyle	Lieutenant	104 Fayerweather St.
63	Thomas H. McCourt	Engineman	59 Rindge Avenue
39	Jeremiah O'Connor	Asst. Engineman	2 Olive Place
4	Hiram W. Hooker	Private	45 Fayette Street
87	James H. Sullivan	Private	39 Washburn Ave.
118	W. H. C. Acford	Private	14 Carlisle Street
136	Bernard J. Coakley	Private	41 Oliver Street
13	Joseph J. Corcoran	Callman	31 Ash Street

ENGINE CO. NO. 2

First size Amoskeag engine, drawn bv three horses; capacity, 900 gallons a minute; has been in service since 1891. New boiler, 1908. Hose wagon drawn by two horses, with 800 feet of hose.

No. of Badge	Name	Rank	Residence
127	John H. Dardis	Captain	81 Prospect Street.
14	Daniel E. Powers	Lieutenant	19 Park Street.
2	Charles A. Cairns	Engineman	384 Mass. Avenue.
100	Arthur L. Marshall	Asst. Engineman	87 Hammond Street
84	Thomas H. Anderson	Private	34 Watson Street
78	Charles A. Olsen	Private	384 Mass. Avenue
33	William J. Connors	Private	110 Fayerweather St.
36	Frank Foster	Private	122 Charles Street
20	John J. Balfe	Callman	377 Norfolk Street.
22	Charles H. Cutting	Callman	1 Pine Street.
80	Joseph A. Woods	Callman	107 School Street.

ENGINE CO. NO. 3

First size Amoskeag engine, drawn by three horses; capacity, 900 gallons a minute; has been in service since 1891. New boiler, 1905. Hose wagon drawn by two horses, with 800 feet of hose and all other necessary equipment.

No. of Badge	Name	Rank	Residence
27	Frank McGrath	Captain	39 Hunting Street.
30	William F. Newman	Lieutenant	29 Ridgefield Street.
12	William L. McCusker	Engineman	26 Williams Street.
19	Cornelius O'Connell	Asst. Engineman	41 Fourth Street.
115	John J. O'Callahan	Private	36 Tremont Street.
3	Edward F. Looney	Private	15 Marney Street.
120	Daniel J. Holleran	Private	292 Columbia Street.
35	Charles F. O'Connor	Private	13 Palermo Street.
34	Charles H. Leddy	Callman	65 Antrim Street.
59	George W. Stevens	Callman	135 Antrim Street.
37	Joseph King	Callman	339 Cambridge Street.
23	Thomas J. Conroy	Callman	16 Hardwick Street.

ENGINE CO. NO. 4

Third size Amoskeag engine, drawn by two horses; capacity, 550 gallons a minute; has been in service since 1895. New boiler, 1904. Hose wagon drawn by two horses, with 900 feet of hose and all other necessary equipment.

No. of Badge	Name	Rank	Residence
86	Cutter L. Vose	Captain	51 Prentiss Street.
119	Walter E. Chapman	Lieutenant	73 Porter Road.
42	John T. Henderson	Engineman	11 Yerxa Road.
24	James A. Drinkwater	Asst. Engineman	1 Coolidge Place.
57	Frank J. Murray	Private	35 Warwick Park.
122	Thomas J. King	Private	54 Creighton Street.
25	Walter L. Allen	Private	30 Cambridge Terrace.
10	William Coyne	Private	220 Elm Street.
45	George F. Durgin	Callman	195 Pemberton Street.
47	William F. Henderson.	Callman	10 Allen Street.

ENGINE CO. NO. 5

Second size Amoskeag engine, drawn by gasoline tractor; capacity, 700 gallons a minute; has been in service since 1876. New boiler, 1914. Combination hose and chemical motor-drawn with 800 feet of hose and two 35-gallon tanks.

No. of Badge	Name	Rank	Residence
51	Peter F. McSorley	Captain	1431 Cambridge Street.
44	Redmond M. Burke	Lieutenant	22 Hadley Street.
53	George L. Church	Engineman	1293 Cambridge Street.
32	Hugh Powers	Asst. Engineman	232 Norfolk Street.
52	Timothy McCarthy	Private	1269 Cambridge Street.
110	Mortimer F. Hartney	Private	163 Brookline Street.
43	William Beck	Private	41 Granville Road
105	Jeremiah F. Hayes	Private	17 Marney Street.
58	James H. McGrath	Callman	4 Highland Park.
60	John F. Downey	Callman	341 Columbia Street.
61	William G. Johnson	Callman	41 Springfield Street.

ENGINE CO. NO. 6

Second size Amoskeag engine, drawn by two horses; capacity, 700 gallons a minute; has been in service since 1873. New boiler, 1907. Hose wagon drawn by two horses, with 800 feet of hose and all other necessary equipment.

No. of Badge	Name	Rank	Residence
126	Lewis C. Clark.....	Captain	264 Green Street.
66	Herman E. Gutheim....	Lieutenant	38 Amory Street.
62	J. Lewis Howe.....	Engineman	189 Western Avenue.
6	Thos. F. Drummond...	Asst. Engineman	270 Green Street.
65	Warren A. Dale.....	Private	104 Otis Street.
118	Wm. H. C. Acford.....	Private	14 Carlisle Street.
69	Wm. F. Campbell.....	Private	25 Decatur Street.
8	Louis C. Avery.....	Private	3 Sullivan Place.
70	Thomas F. Mullen.....	Callman	140 Pearl Street.
72	Charles P. Cox, Jr.....	Callman	134 River Street.

ENGINE CO. NO. 7

Second size Amoskeag engine, drawn by three horses; capacity, 700 gallons a minute; has been in service since 1873. New boiler, 1907. Combination hose and chemical wagon, drawn by two horses, with 800 feet of 2½ inch hose, two 30-gallon tanks and 200 feet of ¾-inch hose, and all other necessary equipment.

No. of Badge	Name	Rank	Residence
17	James H. Furfey.....	Captain	59 Prince Street.
26	Thos. F. O'Connell.....	Lieutenant	24 York Street.
29	Patrick J. Hayes.....	Engineman	93 Gore Street.
83	Joseph S. Hayes.....	Asst. Engineman	79 Hampshire Street.
75	Leo A. Diehl.....	Private	9 Gardner Street
136	Otis D. Powers.....	Private	8 Rockingham Street.
76	Henry J. O'Brien.....	Private	28 York Street.
15	Thomas J. Galvin.....	Private	346 Norfolk Street.
82	Edward Clark	Callman	253 Sixth Street.
85	James E. Cunha.....	Callman	9 Gardner Street.

RESERVE ENGINE

Second size Amoskeag engine; has been in service since 1869. New boiler, 1897. Now out of service.

LADDER CO. NO. 1.

Ordinary ladder truck, drawn by three horses, equipped with 469 feet of ladders, the longest ladder 65 feet extension; also equipped with jumping net, life line, etc.; has been in service since 1892.

No. of Badge	Name	Rank	Residence
129	Wm. H. Barrow.....	Captain	106 Fayerweather St.
88	Wm. J. Anderson.....	Lieutenant	79 Putnam Avenue.
97	John F. McPherson....	Private	204 Banks Street.
38	Chas. N. Anderson....	Private	585 Green Street.
67	Eugene L. O'Keefe....	Private	3 George Street.
64	Robert Buchanan	Private	20 Griggs Street.
54	Joseph H. Caldwell....	Private	216 Banks Street.
93	John J. Jefferson.....	Callman	98 Winthrop Street.
95	Thomas J. McGowan..	Callman	17 South Street.
96	James F. Rooney.....	Callman	26 Shepard Street.

LADDER CO. NO. 2

Combination ladder and chemical truck, drawn by three horses; equipped with 445 feet of ladders; longest ladder, 65 feet extension; two 35-gallon tanks; 200 feet of ¾-inch chemical hose; life line, etc. Put in service, 1902.

No. of Badge	Name	Rank	Residence
28	Albert R. Wait.....	Captain	114 Hampshire Street.
77	Dennis R. Sullivan.....	Lieutenant	35 Harvard Street.
102	Charles F. McElroy.....	Private	79 Hampshire Street.
108	Thomas J. Parks.....	Private	17 Marney Street.
116	Frank A. Casey.....	Private	294 Prospect Street.
107	Michael Mullen	Private	38 Plymouth Street.
128	Wm. J. L. Sullivan.....	Private	2 Harding Street.
7	James H. Newman.....	Private	40 Rindge Avenue.
50	Joseph A. McDonald....	Private	79 Hampshire Street.
71	James P. Welch.....	Private	92 Columbia Street.
106	Thomas J. Lane.....	Callman	134 Otis Street.
91	Timothy J. Murphy.....	Callman	709 Cambridge Street.

LADDER CO. NO. 3

Hayes 75-feet aerial truck, drawn by three horses; carries 275 feet of ladders, jumping net, life line, etc. Put in service 1894. Hose and Morse nozzle applied for water tower, 1909. Dahill hoist applied 1911.

No. of Badge	Name	Rank	Residence
98	John T. McNamee.....	Captain	209 Hamilton Street.
113	Wm. C. Richardson....	Lieutenant	76 Antrim Street.
89	Benj. McArthur	Private	117 Magazine Street.
117	Morris A. Skold.....	Private	261 Washington Street.
94	James H. McCabe.....	Private	247 Hampshire Street.
104	Wm. F. McGrath.....	Private	84 Plymouth Street.
109	James W. McCloskey...	Private	1165 Cambridge Street.

LADDER CO. NO. 4.

Ordinary ladder truck, drawn by two horses; equipped with 340 feet of ladders; longest ladder, 60 feet extension; jumping net, life line, etc. Put in service, 1905. Combination hose and chemical wagon, drawn by two horses; equipped with two 25-gallon tanks; 800 feet of 2½-inch hose, and 250 feet of ¾-inch chemical hose. Put in service, 1905.

No. of Badge	Name	Rank	Residence
133	Edward F. Conroy.....	Captain	10 Mt. Auburn Street.
130	Timothy Curran	Lieutenant	102 Fayerweather St.
9	Edward F. Kelley.....	Private	51 Montgomery Street.
40	John F. Collins.....	Private	6 Rindge Avenue.
79	John Gibson.....	Private	60 Fairfield Street.
132	Matthew F. Gleason....	Private	104 Concord Avenue.
78	Charles A. Olsen.....	Private	23 Athens Street.
49	George A. Lorigan.....	Private	59 Rindge Avenue.
123	Francis V. Doyle.....	Private	7 Madison Street.
74	Wm. T. Anderson.....	Private	136 Huron Avenue.

RESERVE LADDER TRUCK

Ordinary truck ready for service.

CHEMICAL ENGINE CO. NO. 1

Perkins chemical engine, drawn by three horses. Two 90-gallon tanks, equipped with 650 feet ¾-inch chemical hose and 200 feet of 2-inch linen hose. Has been in service since 1880. Rebuilt with new tanks, 1911.

No. of Badge	Name	Rank	Residence
99	James T. McCabe.....	Captain	17 Laurel Street.
11	Daniel J. O'Connell.....	Engineman	408 Columbia Street.
21	John J. Murphy	Private	25 Decatur Street.
111	Edward J. Kelley	Private	368 Prospect Street.
81	James E. Jefferson....	Private	158 River Street.

CHEMICAL ENGINE NO. 2

Champion chemical engine drawn by two horses. Two 60-gallon tanks, equipped with 600 feet of ¾-inch chemical hose. Put in service, 1894. Rebuilt, 1908.

No. of Badge	Name	Rank	Residence
16	John D. Shea.....	Captain	15 Athens Street.
124	Garfield F. Eagleston...	Engineman	4 Foster Street.
121	John J. Flavin.....	Private	22½ Sparks Street.
48	George A. Regan.....	Private	84 Pemberton Street.
41	Edward J. Shea.....	Private	22 Porter Road.

Respectfully submitted,

JAMES M. CASEY,

Acting Chief.

ANNUAL REPORT OF CHIEF OF POLICE

ENDING MARCH 31st, 1916.

The whole number of arrests for the year was 4,273 divided as follows:

Abduction	1
Abandonment	9
Adultery	5
Assault and battery	307
Assault, felonious	17
Assault on an officer	1
Assault, indecent	8
Assault with intent to rob	4
Arson	4
Assault, mutual	4
Attempt to break and enter	4
Attempt to rape	2
Attempt to rescue prisoner	2
Abandoning a child	4
Appropriating a vehicle	22
Assault, to kill	1
Allowing minor in pool room	1
Bastardy	24
Being present where gaming implements were found	40
Breaking and entering	74
Burglary	1
Criminal libel	1
Capias	27
Common drunkard	53
Carrying concealed weapons	22
Contempt of court	10
Conveying leased goods	6
Common nuisance	1
Cruelty to animals	6
Conspiracy	17
Delinquent children	12
Disturbing the peace	152
Disturbing public meetings	5
Disorderly conduct	3
Disorderly house	1
Drunkenness	1,447
Deserter	1
Disturbance on cars	21
Default	12
Escaped prisoners	9
Evading car fares	9
Exposure of person	6
Forgery	3
Fornication	9
Gaming or present at	56
Gaming on Lord's day	55
Gaming nuisance	1
Giving drug to prisoner	1
Idle and disorderly	6
Incest	2
Insane	16
Illegal sale of narcotics	2
Keeping unlicensed dogs	11
Keeping shop open on Lord's day	2
Larceny	263
Larceny in a building	6
Lewd and lascivious	10
Larceny from person	7
Loitering	24
Malicious mischief	33
Manslaughter	5
Murder	2
Malicious injury to real estate	8
Non-support	248
Neglected children	36
Obstructing a street	1
Promoting a lottery	5
Polygamy	1
Peddling without a license	19
Profanity	2
Perjury	1
Receiving stolen goods	9
Runaways	12
Robbery	12
Rape	2
Selling cigarettes to minor	2
Setting fire	6
Safe keeping	55
Suspicious persons	9
Surrender by bail	2
Stubborn children	55
Selling goods with illegal measures	4
Threatening	10
Trespass	168
Tramps	6
Violation of traffic regulation	15
Violation of "Masher" act	4
Violation of auto laws	333

Vagabonds	2
Vagrants	3
Violation of city ordinances	112
Violation of liquor laws	53
Violation of milk law	7
Violation of probation	142
Violation of park rules	31
Violation of the rules of the Board of Health	7
Violation of game laws	1
Violation of Fire Hazard regulations	1
Violation of labor laws	10
White slavery	2
Working on the Lord's day without a permit	4

MISCELLANEOUS BUSINESS.

Accidents	714
Buildings found open and secured	386
Defective lamps	4,070
Defective wires	104
Defective streets and sidewalks	1,500
Cases investigated	6,626
Dangerous buildings	7
Dangerous chimneys	7
Dead bodies found	54
Defective catch basins	139
Defective fire alarm boxes	44
Defective water pipes	169
Defective hydrants	36
Defective trees	20
Defective poles	3
Disturbances suppressed	104
Dogs killed	65
Fire alarms given	17
Fires extinguished without an alarm	65
Intoxicated persons helped home	2
Lost children restored	345
Sick and injured persons assisted	759
Stray teams put up	47
Water running to waste	29

EXPENSES OF DEPARTMENT.

Salaries	$201,389 98
General expenses	6,573 75
Total	$207,963 73

ORGANIZATION.

The department consists of 1 Acting Chief; 6 Captains; 11 Lieutenants; 8 Sergeants; 126 Patrolmen and 26 Reserve Officers.

During the year two of our pensioned patrolmen died.

Respectfully submitted,

JOHN F. MURRAY,

Acting Chief.

REPORT OF THE OVERSEERS OF THE POOR.

May 27, 1916.

To the Honorable the City Council of the City of Cambridge.

Gentlemen: The annual report of the Board of Overseers of the Poor for the year ending March 31, 1916, is presented herewith.

At the annual meeting of the Board, held on May 3rd, 1915, Rev. John R. McCool was again re-elected chairman.

Patrick J. Callaghan, a member of the Board since December 27, 1904, died on August 21, 1915, and at a meeting of the Overseers of the Poor the following resolutions were adopted:

"Since it has pleased Almighty God to call to himself Mr. Patrick J. Callaghan, an honored member of the Overseers of the Poor for eleven years, and a respected citizen of Cambridge, and

"Whereas, Mr. Callaghan has given freely of his time and judgment in caring for the poor of Cambridge, the poor have lost a devoted friend and the city a faithful servant; therefore, be it

"Resolved, That the Overseers of the Poor, both individually and as a Board, feel they will miss his valued judgment, and be it

"Resolved, That the Overseers of the Poor adopt these resolutions and cause them to be incorporated in the records of the Board."

On September 20, 1915, the City Council in joint convention elected Bernard B. Welch to fill the vacancy in the Board.

	Expenditures	Receipts	Net Cost
Outside aid	$104,719 66	$25,592 27	$79,127 39
City Home	36,633 35	396 55	36,236 80
City Home Hospital	1,678 36	281 42	1,396 94
Farm	4,318 21	2,079 80	2,238 41
			$118,999 54

The expenses in detail will be found in the tables which follow.

During the year passed, the work of renovating the City Home was carried on to completion and on February 1st, 1916 the building was accepted from the builder by the architect. We have now a building much better equipped and safer in every way yet for lack of funds there are many things which, for the time being, must be left undone. We can now take care of many cases which formerly we had to send to other hospitals and pay for at a weekly rate of from

$10.00 to $15.00. To do this properly we must increase the number of attendants, but the increased cost of maintenance will be more than compensated by the difference between the charge made by outside hospitals and the actual cost in our own hospital.

The number of inmates at the City Home during the months of November, December, January, February and March is in excess of 200. The average weekly cost per capita for the City Home is $3.55 and compares very favorably with the cost in cities of about the same population and conditions. We feel that the inmates are well cared for in clean surroundings, credit for which is due the Superintendent and Matron, Mr. and Mrs. Charles E. Goodrow. We invite the City Council to make a visit to the Home at any time and welcome any suggestions which will lead to improvement in the condition or management of the Home.

A growing problem which is felt all through the Commonwealth is the sympathetic and judicious distribution of city aid to people in their own homes.

The many phases of the problem can be met with intelligently and handled properly only by those who are devoting their time to this work alone. The cause of the increased cost of maintaining the Poor Department in a city of the size of Cambridge and situated so closely to Boston can be easily explained by the Overseers of the Poor of Cambridge, some of whom have given over ten years of their time to a consideration of conditions in the city. For this increase we have no excuses to offer. It is the natural increase added to the burden of the Mothers' Aid law legally placed upon us by the Legislature in September, 1913. As far as we know there is no one getting aid undeservedly and we propose to continue on the same lines in the future as in the past.

The handling of 1378 cases of 4437 persons which we have aided during the past year makes up a volume of work little realized except by those who have an intimate knowledge of the office work. We feel that a stenographer's salary would be more than saved if the visitors were relieved of office work and given more time to pay more frequent visits to their cases and examine conditions more closely. The clerical force in the office is the same now as it was 25 years ago, yet Cambridge has nearly doubled its population. In this year's budget we included the salary of a stenographer but it did not meet with the approval of His Honor the Mayor who reduced our appropriation from $110,165.00 to $65,000.00. Last year our appropriation was cut from

(in round numbers) $91,000.00 to $70,000.00 and we had about $26,000.00 unpaid bills, mostly for cases in other cities and towns over which we had no control and which there was no way of foreseeing. We have already sent a letter of protest to His Honor, the Mayor advising him of what he may expect at the end of this fiscal year. Our methods seem to please the State Board of Charity and our office system has been especially commended by the State Visitor. We feel that our office force is competent but much overworked and again recomment that provision be made for a stenographer.

Respectfully submitted,

JOHN R. McCOOL, *Chairman,*
GEORGE P. O'BRIEN,
BERNARD B. WELCH,
JAMES F. MULLEN,
FRANK McLOUGHLIN,

Overseers of the Poor.

REPORT OF CITY PHYSICIAN.

To the Honorable the City Council of Cambridge.

Gentlemen: The report of the City Physician for the twelve months ending March 31, 1916 is hereby rendered.

CITY HOME

Number of visits to the City Home		347
Number of persons attended there		785
Number of deaths at the City Home		14
Cost of medicines	$889 46	
Cost of surgical appliances	258 36	
Cost of medical assistance	.....	
Total	$1,147 82	

OUTSIDE AID

Number of persons attended for the Overseers of the Poor		1,532
Number of visits to the same		2,250
Number of persons sent to outside hospitals for treatment		135
Number of outside deaths		16
Number of outside births		31
Cost of medicines	$1,109 77	
Cost of surgical appliances	17 80	
Cost of medical assistance	95 00	
Total	$1,222 57	

DEPARTMENTAL

Number of persons attended at police stations		59
Number of visits to the same		60
Number of persons examined for the Law Department		6
Number of visits to the same		6
Number of employees examined for injuries		5
Police Department	1	
Fire Department	4	
Number of visits to the same		5
Persons injured by Police Department		
Street Department	1	
Park Department		
Sewer Department		
Offal Department		
Water Department		
Fire Department		
Number of visits to the same		2
Number of vaccinations for the School Committee		536
Number of visits to the same		536

Number of call firemen examined for retirement	1
Number of visits to the same	1
Number of call firemen examined for promotion to permanent	3
Number of visits to the same	3
Number of policemen examined for retirement	1
Number of visits to the same	1
Number of firemen examined for retirement	0
Number of visits to the same	0
Total number of persons having received professional care	2,929
Total number of professional visits to the same	3,211

CITY HOME HOSPITAL REPORT FOR THE YEAR ENDING MARCH 31, 1916.

Number of patients admitted		84
Number of births		1
Number of deaths		24
Cost of medicines	$39 83	
Cost of surgical appliances	95 40	
Cost of medical assistance	....	
	$135 23	

I wish to thank all the officials connected with the department for their kind and courteous treatment, and material help.

Respectfully submitted,

WILLIAM G. BROUSSEAU, M.D.,
City Physician.

REPORT OF THE SUPERINTENDENT OF THE CAMBRIDGE CITY HOME.

Cambridge, April 29, 1916.

To the Overseers of the Poor.

Gentlemen: The annual report of the Cambridge City Home for the twelve months ending March 31, 1916, is hereby respectfully submitted.

The whole number in the Home during the twelve months has been as follows:

Males	293
Females	127
Total	420
Adults	391
Minors	29
Whole number in Home March 31, 1916	212
Average number during the twelve months	207

Included in the whole number in the Home March 31, 1916, there are:

IMBECILE

Males	1

BLIND

Females	1

EPILEPTICS

Females	6

Included in the whole number discharged during the twelve months are 15 persons sent to other institutions, as follows:

Worcester Insane Hospital	4
State Infirmary	4
Tuberculosis Hospital	4
Chardon Street Home	3

Remaining in the Home March 31, 1916:

Males	150
Females	62
Adults	208
Minors	4

Respectfully submitted,

CHARLES E. GOODROW,
Superintendent.

OUTSIDE AID DEPARTMENT, APRIL 1, 1915, TO APRIL 1, 1916

Month	Salaries	Groceries, Fuel	Cash Roll Boarded Cases	Mothers' Aid, Cash	Physicians, Medicines, Surgical Supplies	Undertaker, Cemetery	Hospitals	Other Cities and Towns	Postage, Printing, Stationery, Books	Gas, Electric Light Telephone	State Infirmary, Mass. Hosp. School, Minor Wards	Transportation	Repairs and Auto Maintenance	Miscellaneous
1915														
April	$601 21	$3,025 49	$2,094 26	$2,814 00	$312 29	$190 50	.....	.....	.....	$28 20	.....	$20 00	.....	$86 01
May	749 16	5,880 70	2,289 75	3,514 50	.....	118 00	.....	$221 61	$79 60	14 88	.....	225 25	$116 43	84 06
June	637 66	1,037 44	1,758 00	2,689 00	244 10	92 00	.....	225 00	35 50	28 43	$2,841 69	54 00	33 29	130 99
July	825 16	1,362 24	2,370 82	3,323 00	25 68	8 00	.....	455 29	96 94	12 90	.....	107 46	1 85	10 45
August	685 66	573 79	2,154 07	2,707 00	65 36	44 00	$4,119 95	1,503 05	42 79	14 38	.....	434 42	26 95	7 35
September	652 66	1,341 94	2,522 29	2,730 00	102 74	72 00	702 30	881 95	.....	12 39	70 00	52 00	66 47	30 78
October	774 16	953 56	2,389 32	3,318 00	147 18	.....	.....	103 49	1 47	11 57	.....	60 00	11 27	71 98
November	652 66	1,070 23	1,595 25	2,401 00	69 00	27 00	.....	.....	15 70	12 40	.....	8 00	12 20	17 60
December	652 66	1,573 15	2,163 93	2,249 00	29 15	8 00	10 00	260 59	9 80	13 07	56 20	74 80	135 09	75 50
1916														
January	774 16	1,903 14	2,272 21	2,835 00	149 32	30 00	.....	.....	20 00	13 41	.....	54 00	17 21	441 47
February	652 66	882 38	1,596 00	2,338 50	77 75	103 00	.....	.....	10 82	14 26	.....	.....	8 57	40 88
March	687 34	.....	1,607 50	2,392 00	.....	.....	.....	2,274 97	.....	.....	.....	.....	.....	.....
Total	$8,345 15	$19,604 11	$24,813 40	$33,311 00	$1,222 57	$692 50	$4,832 25	$5,925 95	$312 62	$175 89	$2,967 89	$1,089 93	$429 33	$997 07

CITY HOME DEPARTMENT, APRIL 1, 1915, TO APRIL 1, 1916

Month	Salaries and Wages	Fuel	Ice, Groceries, Provisions	Dry Goods, Clothing, Boots and Shoes	House Supplies	Medicines, Surgical Supplies	Undertaker, Cemetery	Telephone, Transportation	Repairs, Lumber	Hospitals	Postage, Printing, Stationery, Books	Gas, Electric Light	Miscellaneous
1915													
April	$747 36	.....	$2,849 76	$143 82	$272 64	$214 83	$202 00	$37 03	$473 55	.....	$4 00	.....	.....
May	864 07	$878 96	3,132 59	1,046 80	468 83	324 60	100 00	112 31	196 97	$11 00	39 03	$161 59	$236 25
June	692 01	86 80	1,425 36	472 77	49 83	58 26	.....	13 17	32 62	.....	8 33	19 89	14 70
July	854 07	102 49	1,129 74	197 74	76 41	62 22	.....	61 16	2 45	.....	14 21	13 07	143 77
August	692 14	.....	1,019 47	148 81	.....	36 64	39 00	7 83	43 43	.....	2 94	14 05	.....
September	688 85	8 48	833 94	154 01	35 89	117 57	.....	6 46	100 91	10 00	13 47	10 48	533 99
October	864 07	34 16	983 51	194 68	187 42	59 68	.....	8 12	114 40	.....	.....	14 96	153 77
November	693 41	69 12	1,577 98	22 34	34 18	70 94	22 00	36 97	90 89	.....	.....	25 43	166 53
December	692 14	166 40	1,147 12	318 70	76 22	154 26	62 00	21 31	172 66	.....	8 68	43 33	112 90
1916													
January	900 07	361 30	1,610 99	420 14	116 31	47 07	66 00	41 17	168 22	.....	10 00	84 68	223 43
February	691 87	.....	13 35	.....	.....	1 75	.....	38 62	45 90	.....	.....	10 33	50 00
March	754 45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	$9,144 51	$1,707 71	$15,723 81	$3,119 81	$1,317 73	$1,147 82	$491 00	$384 15	$1,442 00	$21 00	$100 66	$397 81	$1,635 34

CITY HOME HOSPITAL DEPARTMENT, APRIL 1, 1915, TO APRIL 1, 1916

Month	Wages	Fuel	Medicines, Surgical supplies	Electric Light	Repairs	Groceries
1915						
April	$71 20	.....	.....	.....	.....	.....
May	104 00	$68 64	$61 10	$48 42	.....	.....
June	83 20	.....	.....	7 38	.....	.....
July	104 00	.....	19 60	5 67	.....	.....
August	83 20	37 62	.....	7 02	.....	.....
September	83 20	.....	20 23	6 21	.....	$4 16
October	104 00	.....	.....	6 93	.....	.....
November	83 20	37 62	.....	8 73	.....	1 10
December	83 20	.....	.....	11 25	.....	.....
1916						
January	104 00	37 62	.....	11 70	.....	.....
February	83 20	.....	34 30	11 61	73	8 30
March	83 20	25 55	.....	10 17	116 60	.....
Total	$1,069 60	$207 05	$135 23	$135 09	$117 33	$13 56

FARM DEPARTMENT, APRIL 1, 1915, TO APRIL 1, 1916

Month	Wages	Garden Seeds and Plants	Hay, Grain, Straw	Hardware, Repairs	Market Stand	Horseshoeing	Poultry and Pigs	Electric Light
1915								
April	$346 33	.....	.....	.....	.....	$13 00	.....	.....
May	380 00	$27,65	.....	$7 93	.....	.....	.....	25
June	304 00	21 00	$69 88	7 80	.....	.....	.....	1 68
July	442 29	95 36	46 70	.....	$100 00	.....	.....	.....
August	426 92	3 43	17 54	1 32	.....	.....	.....	.....
September	280 00	.....	11 76	30 24	.....	.....	.....	.....
October	380 00	.....	11 03	.....	.....	.....	$92 50	.....
November	302 75	.....	.....	7 10	.....	.....	.....	.....
December	304 00	.....	20 53	39 64	.....	12 25	.....	45
1916								
January	294 00	.....	11 37	35 83	.....	.....	.....	45
February	.....	.....	.....	.....	.....	.....	.....	.....
March	90 00	81 83	.....	.....	.....	.....	.....	.....
Total	$3,550 29	$229 27	$188 81	$129 86	$100 00	$25 25	$92 50	$2 23

ANNUAL REPORT OF THE ELECTRICAL DEPARTMENT

Office of the City Electrician.

To the Honorable, the City Council, of the City of Cambridge:

Gentlemen: I submit herewith the seventeenth annual report of the electrical department for the fiscal year beginning April 1, 1915, and ending March 31, 1916.

INSPECTION OF ELECTRICAL WIRING IN BUILDINGS.

Below is a table showing the amount of work done in this branch of the department compared with similar work for the year before. As will be noted from this table, the amount of work in the inspection department is increasing every year, resulting in an increased necessity for an addition to the inspection force. The two inspectors now in the department have difficulty in inspecting all the new work that is being done and another inspector is required to assist them and to make inspections on old wiring, much of which is sadly in need of repair.

No fires from electrical causes were reported during the year.

TABULATION OF INSPECTION OF INTERIOR WIRING.

	April 1, 1914 to Mar. 31, 1915	Apr. 1, 1915 to Mar. 31, 1916
Number of inspections	2,370	3,046
Number of installations inspected	962	951
Capacity of lamps and sockets installed	29,760	33,525
Capacity of low potential arcs installed	——	11
Number of power motors installed	254	260
H. P. of motors installed	1,280	1,759½
Number of generators installed	——	8
Number of defects noted	480	735
Number of unfinished inspections	50	55

POLICE SIGNAL SYSTEM.

No new boxes were added to the police signal system during the past year and no changes other than those required for the ordinary maintenance of the system were made. When the new fire alarm apparatus is installed in the Inman Square Building and the old apparatus in the Brattle Square Building is disconnected from service, the storage batteries that are used to run the fire alarm system at present will be available for other purposes. It is the intention of the department to discontinue the use of gravity batteries for the police signal systems in Station No. 2 and No. 3 and to install in place thereof these old storage batteries now used for the fire alarm system. This change will require two small motor generator sets and two switchboards for use in charging the batteries, and I trust that the appropriation for the coming year will be sufficient to enable us to do this work. The saving each year in labor and materials after the storage batteries are installed will be greater than the original cost of installation.

FIRE ALARM SYSTEM.

On account of the installation of the new fire alarm apparatus in the new building at Inman Square, as little work as was possible has been done in the old fire alarm office. No improvements whatever were undertaken and only such work was done as was necessary to maintain the efficiency of the system.

In July, 1915, the installation of the new apparatus at Inman Square was started. Before the delivery of the apparatus it was necessary to tear up the floor of the apparatus room in the Inman Square Building on account of the unevenness of the surface, and a new cement floor was laid. The old floor was a patented material and would have been entirely satisfactory except that in several places it expanded and rose about six inches above the level of the rest of the floor.

The installation of the fire alarm apparatus was made by the Gamewell Fire Alarm Telegraph Company, who had the contract for furnishing and installing the apparatus. Many differences arose between the City Electrician and the engineers of the company, but in every case of dispute the City Electrician enforced the provisions of the specifications, which, in many instances, the com-

pany desired to evade, except in a few instances where it was found that a change from the specifications was for the best interests of the City. All such changes were preceded by a written authorization from the City Electrician.

While the installation of the apparatus was being made, the department was busy making provisions for connecting the circuits of the fire alarm system to the new apparatus, and for disconnecting the circuits from the old apparatus. This necessitated running an under-ground cable from the corner of Pleasant Street and Green Street through Pleasant Street, Massachusetts Avenue, and Inman Square, to the new building, and an overhead cable from Massachusetts Avenue and Church Street through Peabody Street and Cambridge Street to Inman Square. All the circuits, however, enter the building under ground and are carried up a cable well to a terminal board in a separate terminal room on the same floor as the fire alarm apparatus. This terminal board is equipped with vacuum lightning arresters, which are expected to protect the apparatus from high tension currents and lightning.

The installation of the apparatus was completed in February, 1916, and the circuits were cut over on the afternoon of February 28, 1916. The new office was put in service at 6.00 P. M. on that day.

As was to be expected with new apparatus, some minor difficulties were met with in the operation of the new equipment, but in no case did these difficulties cause any delay or confusion in the transmission of alarms.

The last box transmitted from the old office was box 752 at 4.04 P. M. and the first alarm in the new office was from box 291 at 11.35 P. M., February 28, 1916. The City Electrician slept at the new office every night for about a month to assist the operators until they became sufficiently familiar with the new apparatus to have confidence in themselves in operating it.

New fire alarm boxes were installed as follows:

685 Upland Road, corner Washington Avenue.
691 Massachusetts Avenue, corner Linnaean Street.
345 Brookline Street, near Esplanade.
343 Gray & Davis Co., Esplanade.
211 Willow Street, near Cambridge Street.
463 Harvard Street, opposite Remington Street.
873 Aberdeen Avenue, opposite Gale Lumber Co.

Following is a table of statistics of the system:

Central Station equipment	1
Fire alarm boxes on the street	154
Fire alarm boxes on private premises	35
Fire alarm boxes with keyless doors	107
Fire alarm boxes with glass key boxes	14
Length of circuit wires in system in miles	165
Tower bells connected with system	8
Steam whistles connected with system	3
Tappers in firemen's houses	46
Tappers in factories where firemen work	6
Tappers in electrical department men's houses	3
Tappers in fire department houses	19
Tappers other than above	19
Telephones connected with the system	23
Total number of bell alarms for fire sounded during past year	444
Number of second alarms for fire sounded during past year	7
Number of third alarms for fire sounded during past year	1
Number of general alarms for fire sounded during past year	1
Number of no school alarms sounded during past year	8
Number of still alarms reported during past year	201

OUTSIDE CONSTRUCTION WORK.

The outside construction work in the fire alarm and police signal systems this year consisted mainly in running wires for the new boxes and in running cables for connecting the circuits to the new office. Considerable change in the circuits was necessary in connection with the work of cutting over from the old office to the new. The usual amount of work was done also in changing over our crossarms and wires on poles of the Telephone and Electric Light Companies where it was necessary to renew or change the location of old poles.

STREET LIGHTING.

Early in the year an agitation was started by the East Cambridge Business Men's Association for a Great White Way on Cambridge Street in East Cambridge. This agitation resulted in the installation of thirty-five (35) 1000 candle power Type "C" lamps in globes supported by ornamental posts similar to those used in the other White Ways that were installed in previous years. Nineteen of these lamps are lighted during the whole night and sixteen are extinguished at midnight. These lamps were first lighted on the night of December 17, 1915, with a local celebration which included public speaking. There was an understanding with the Cambridge Electric Light Company that if these Type

"C" lamps do not prove satisfactory for this form of lighting, magnetite lamps will be substituted for them at the request of the City, after the Type "C" lamps have been in use for at least one year.

The number and kind of lamps in use at the end of the fiscal year were as follows:

	Mar. 31, 1915	Mar. 31, 1916	Increase
Magnetite arc lamps	170	170	....
Type "C"—1000 c.p.	6	49	43
Tungsten arc lamps—200 c.p.	543	551	8
Tungsten arc lamps—240 c.p.	132	110	22*
Tungsten arc lamps— 80 c.p.	....	2	2
Tungsten arc lamps—100 c.p.	....	1	1
Incandescent lamps	689	704	15
Welsbach gas lamps	303	305	2

*Decrease.

To His Honor the Mayor and the City Council and the Committee on Wires and Lamps I express my appreciation for their interest in the department during the year.

Respectfully submitted,

TIMOTHY C. O'HEARN,
City Electrician.

REPORT OF BOARD OF CEMETERY COMMISSIONERS

Cambridge, April 1st, 1916.

To the Honorable the City Council of the City of Cambridge:

The Board of Commissioners of Cambridge Cemetery respectfully submits its sixty-second (62nd) Annual Report, the same being for a twelve months' period ending March 31st, 1916.

The amounts appropriated for the use of the department during the past season were as follows:

General Expenses	$2,500.00
Salaries	18,000.00

There was expended during the year the following amounts, to wit:

Account of

General Expenses	$2,499.15
Salaries	17,997.52

For a detailed account of expenditures reference is made to the City Auditor's report.

The revenue to April 1, 1916, has been as follows:

Sales	$10,502.18	
Interments, Care, etc.	12,943.12	
Perpetual Care Fund	3,434.51	
Total		$26,879.81

From the foregoing statement it will be noted that the department expended an unusually small sum for supplies.

The ordinary and usual routine of cemetery work has received careful attention and the splendid appearance of the grounds at Coolidge avenue warranted the praise which was freely bestowed by visitors.

The territory at the disposal of the board is gradually being laid out into lots for sale, and the Greenwood avenue section recently opened up for this purpose, is quite rapidly being secured by lot owners who consider this a most desirable portion of the grounds.

During the past year the sum of $3,434.51 was added to the permanent fund for perpetual care, bringing this fund to the amount of $111,842.45, which is invested in agreement with the requirements of the law.

JEREMIAH J. SULLIVAN, Chairman,
EBEN H. GOOGINS,
TIMOTHY F. McCARTHY,
GEORGE T. QUINN,
THOMAS E. WILLIAMS,

Board of Cemetery Commissioners.

APPENDIX

ORDINANCES

PASSED BETWEEN APRIL 1, 1915, AND APRIL 1, 1916, AND AMENDMENTS TO STANDING REGULATIONS OF BOARD OF ALDERMEN.

An Ordinance in Amendment of An Ordinance Entitled "Construction, Maintenance and Inspection of Buildings.

Be it ordained by the City Council of the City of Cambridge, as follows:

Chapter 13 of the Revised Ordinances of 1892 as amended to November 8, 1899, is hereby further amended in Section 23 thereof, by adding at the end of the fourth paragraph the following:

"Provided, however, that in buildings of the second class not over twelve feet in height above the first floor, said external and party walls may be made eight inches thick."

As amended said paragraph will read as follows:

"Except as above stated, the external and party walls of every building of the first and second class shall be twelve inches thick in the upper two stories of the height of said wall, not exceeding twenty-five feet in height. In the section of two stories, but not exceeding twenty-five feet next below, the walls shall be sixteen inches thick. In the next lower section of three stories, but not exceeding thirty-seven feet, the walls shall be twenty inches thick, and in each succeeding setion of three stories, but not exceeding thirty-seven feet or any part thereof, the walls shall be four inches thicker than the section next above it, provided, however, that in buildings of the second class not over twelve feet in height above the first floor, said external and party walls may be made eight inches thick."

Approved June 10, 1915.

An Ordinance in Amendment of An Ordinance Entitled "Duties and Salaries."

Be it ordained by the City Council of the City of Cambridge as follows:

Section 30 of Chapter 28 of the Revised Ordinances of 1892, as amended to November 8th, 1899, is hereby further amended in the line relating to the salary of Inspector of Provisions and of Animals intended for Slaughter, etc., by striking out the numerals 700 and inserting in place thereof the numerals 1200.00.

As amended the line will read as follows:

Inspector of provisions and of animals intended for slaughter, etc., 1200.00.

Approved June 28, 1915.

An Ordinance in Amendment of An Ordinance Entitled "Construction, Maintenance and Inspection of Buildings."

Be it ordained by the City Council of the City of Cambridge as follows:

Chapter 13 of the Revised Ordinances of 1892 as amended to November 8, 1899, is hereby further amended as follows:

In Section 13 thereof by striking out the last sentence as follows:

"No building shall be erected for or converted to use as a garage unless such use is previously authorized by the Board of Aldermen."

Approved July 19, 1915.

An Ordinance in Amendment of An Ordinance Entitled "Construction, Maintenance and Inspection of Buildings."

Be it ordained by the City Council of the City of Cambridge as follows:

Chapter 13, of the Revised Ordinances of 1892 as amended to November 8, 1899 is hereby further amended as follows:

In Section 9 thereof last paragraph by striking out the sentence, "This restriction shall not apply to wharves nor to buildings not exceeding twenty-seven feet in height on wharves, nor to market sheds or market buildings not exceeding such height, nor to buildings for the storage of coal, wood, lumber or grain, if the external parts of said buildings, elevators and structures are covered with slate, tile, metal or other equally fireproof material, and the mode of construction and the location thereof are approved by the Superintendent."

As amended said paragraph shall read as follows:

"Every building hereafter erected within the fire limit districts shall be of the first or second class. Temporary structures to facilitate the prosecution of any authorized work may be erected under such conditions as the Superintendent may prescribe."

Approved December 16, 1915.

An Ordinance in Relation to Special Meetings of the City Council.

Be it ordained by the City Council of the City of Cambridge as follows:

All special meetings of the City Council of the City of Cambridge shall be held in the City Council Chamber, City Hall.

Said meetings shall be held on a call of His Honor, the Mayor, or of the President of the City CCouncil at a time to be determined by either of them in the call for the meeting, but notice of any special meeting shall be left at the usual place of dwelling of each member of the City Council twenty-four (24) hours at least, before the time set for such meeting.

Approved February 17, 1916.

An Ordinance Establisiiing tiie Salary of the Mayor.

Be it ordained by the City Council of the City of Cambridge as follows:

The Mayor of the City of Cambridge shall receive for his services a salary of Five Thousand Dollars ($5,000) a year from the first Monday of January, 1916, and he shall receive no other compensa-

tion from the city, in accordance with Section 7, Part III, Chapter 267, Acts of the year 1915.

Approved March 24, 1916.

An Ordinance Entitled "Truants."

Be it ordained by the City Council of the City of Cambridge as follows:

That Section 1, Chapter 37 of the Revised Ordinances of 1892 of the City of Cambridge, as amended to November 8, 1898, be and the same hereby is repealed.

In City Council
March 21, 1916.
Passed to be ordained.

EDWARD J. DUNPHY,
President.

April 2, 1916. Presented to His Honor, the Mayor, on March 22, 1916, for approval and, not being returned by him within ten days with his approval or disapproval thereon in writing, NOW IN FORCE.

MAYORS OF THE CITY OF CAMBRIDGE

(From 1846 to 1916 inclusive)

James D. Green	From	May,	1846,	to April,	1848
Sydney Willard	"	April,	1848,	to April,	1851
George Stevens	"	April,	1851,	to April,	1853
James D. Green	"	April,	1853,	to April,	1854
*Abraham Edwards	"	April,	1854,	to January,	1855
Zebina L. Raymond	"	January,	1855,	to January,	1856
John Sargent	"	January,	1856,	to January,	1860
†James D. Green	"	January,	1860,	to July 24,	1861
§Charles Theo Russell	"	July 31,	1861,	to January,	1863
George C. Richardson	"	January,	1863,	to January,	1864
Zebina L. Raymond	"	January,	1864,	to January,	1865
J. Warren Merrill	"	January,	1865,	to January,	1867
Ezra Pamenter	"	January,	1867,	to January,	1868
Charles H. Saunders	"	January,	1868,	to January,	1870
Hamlin R. Harding	"	January,	1870,	to January,	1872
Henry O. Houghton	"	January,	1872,	to January,	1873
Isaac Bradford	"	January,	1873,	to January,	1877
Frank A. Allen	"	January,	1877,	to January,	1878
Samuel L. Montague	"	January,	1878,	to January,	1880
James M. W. Hall	"	January,	1880,	to January,	1881
James A. Fox	"	January,	1881,	to January,	1885
William E. Russell	"	January,	1885,	to January,	1889
Henry H. Gilmore	"	January,	1889,	to January,	1891
Alpheus B. Alger	"	January,	1891,	to January,	1893
William A. Bancroft	"	January,	1893,	to January,	1897
Alvin F. Sortwell	"	January,	1897,	to January,	1899
Edgar R. Champlin	"	January,	1899,	to January,	1901
David T. Dickinson	"	January,	1901,	to January,	1902
John H. H. McNamee	"	January,	1902,	to January,	1904
Augustine J. Daly	"	January,	1904,	to January,	1906
Charles H. Thurston	"	January,	1906,	to January,	1907
*Walter C. Wardwell	"	January,	1907,	to April,	1909
William F. Brooks	"	April,	1909,	to April,	1911
J. Edward Barry	"	April,	1911,	to April,	1914
Timothy W. Good	"	April,	1914,	to Dec.,	1915
Wendell D. Rockwood	"	January,	1916,	to	

*Municipal year changed. †Resigned. §First elected by the City Council.

PRESIDENTS OF THE BOARD OF ALDERMEN

1888	Edward W. Hincks	1903	*John W. Coveney
1889	John H. Corcoran	1903	Timothy W. Good
1890	Alvin F. Sortwell	1904	John W. Coveney
1891	William A. Bancroft	1905	J. Edward Barry
1892	William A. Bancroft	1906	Charles H. Lake
1893	John F. Fairbairn	1907	Charles H. Lake
1894	John G. Thorogood	1908	Edward B. James
1895	John R. Fairbairn	1909	Edward B. James
1896	John R. Fairbairn	1910	Edward B. James
1897	Russell Bradford	1911	James T. Barrett
1898	Russell Bradford	1912	James T. Barrett
1899	Walter C. Wardwell	1913	Peter J. Nelligan
1900	Walter C. Wardwell	1914	Peter J. Nelligan
1901	George E. Saunders	1915	Peter J. Nelligan
1902	James F. Aylward		

*John W. Coveney resigned March 10, 1903, and Timothy W. Good elected to the vacancy.

PRESIDENT OF CITY COUNCIL.

1916 Edward J. Dunphy.

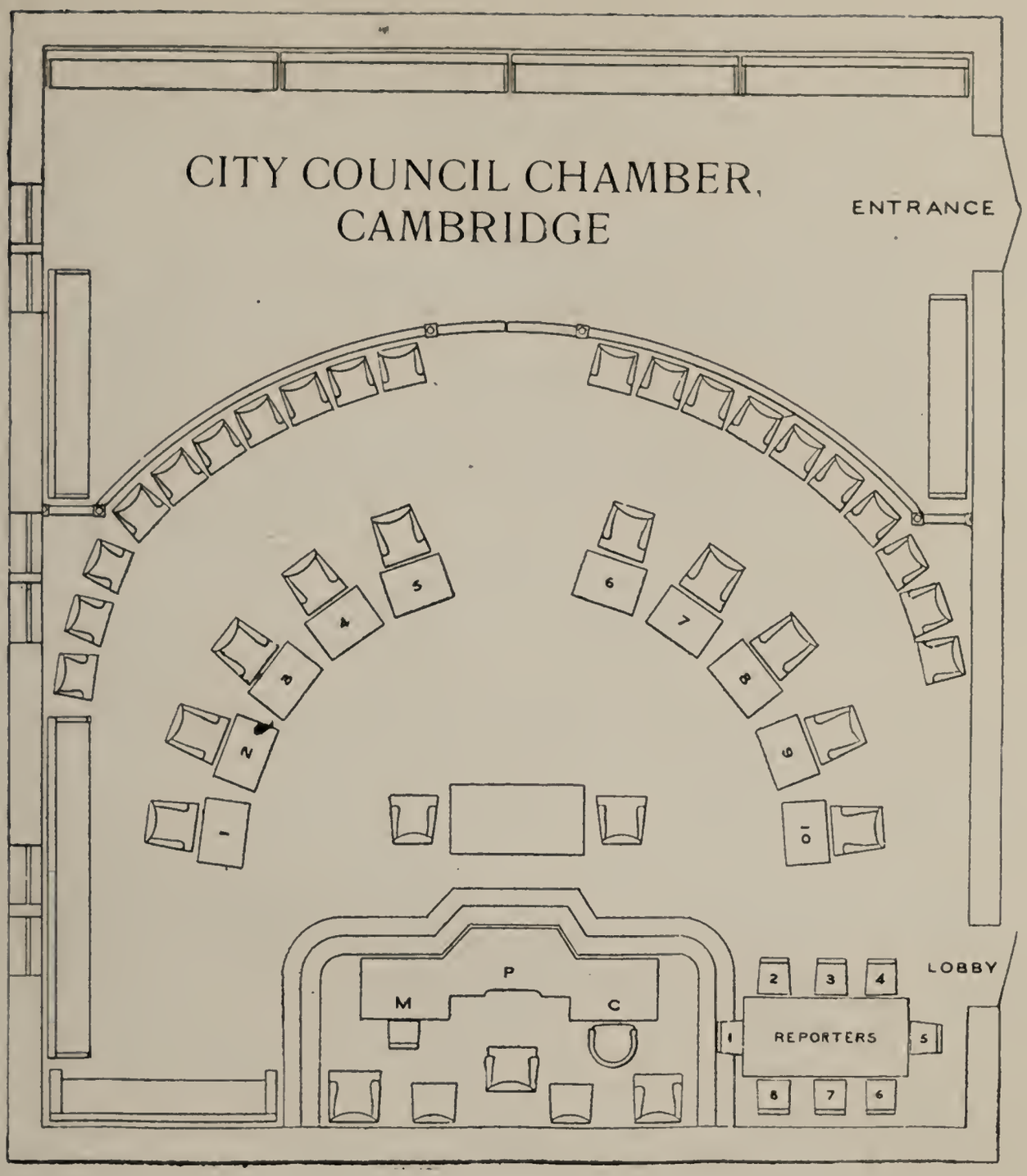
PRESIDENTS OF THE COMMON COUNCIL

1846	*Isaac Livermore
1847	*John Sargent
1848	*John C. Dodge
1849	*Samuel P. Heywood
1850	*Samuel P. Heywood
1851	*John S. Ladd
1852	*John Sargent
1853	*John Sargent
1854	*John C. Dodge
1855	*Alanson Bigelow
1856	*Ezra Ripley. Resigned January 31
1856	*George S. Saunders Elected January 31
1857	*George S. Saunders
1858	*James C. Fisk
1859	*James C. Fisk
1860	*Hamlin R. Harding
1861	*Hamlin R. Harding
1862	*Jared Shepard. Resigned September 17
1862	*Knowlton S. Chaffee Elected September 24
1863	*George S. Saunders
1864	*George S. Saunders
1865	*John S. March
1866	*John S. March
1867	*Marshall T. Bigelow
1868	*Knowlton S. Chaffee Resigned February 4
1868	*Henry W. Muzzey Elected February 4
1869	*Henry W. Muzzey
1875	George F. Piper
1876	Frank A. Allen
1877	*Perez G. Porter
1878	*George S. Saunders
1879	*George S. Saunders
1880	*Charles Walker
1881	*Charles Walker
1882	George H. Howard
1883	George H. Howard
1884	George H. Howard
1885	Cornelius G. H. Bennink
1886	John H. Corcoran
1887	John H. Corcoran
1888	*Alvin F. Sortwell
1889	*Edward A. Bingham
1890	*Edward A. Bingham
1891	Edward C. Wheeler
1892	Herbert A. Chase
1893	J. Henry Russell
1894	Charles M. Conant
1895	*John L. Odiorne
1896	*John L. Odiorne
1897	Albert S. Apsey
1898	George S. Saunders
1899	William F. Brooks
1900	John D. Merrill
1901	John D. Merrill
1902	*Thorndike Spalding
1903	Edward E. Clark
1904	Harry N. Stearns
1905	George A. Giles
1906	George A. Giles
1907	*Henry C. Stetson

1870	*Joseph H. Converse
1871	*Joseph H. Converse
1872	*Alvaro Blodgett
1873	*Alvaro Blodgett Resigned June 17
1873	Francis H. Whitman Elected June 17
1874	George F. Piper
1907	*†Robert W. Hunter
1908	Henry J. Winslow
1909	Jesse W. Moreland
1910	Irving N. Linnell
1911	Frederick H. Burke
1912	Timothy J. Horan
1913	John H. Lynch
1914	Frank J. Lehan
1915	Arthur S. Browne

*Deceased.

†Elected to fill vacancy.



KEY TO
City Council Chamber
Cambridge
1916

P—Edward J. Dunphy, *President*

1.	Councillor	Delehanty	8.	Councillor	Lehan
2.	"	Lynch	9.	"	Apted
3.	"	Kidder	10.	"	Stratton
4.	"	Blanchard	11.	"	Mullett
5.	"	Shea	12.	"	Durant
6.	"	Coady	13.	"	Counihan
7.	"	Hogan	14.	"	Nelligan

Reporters

1. Charles F. Manning, Boston Globe and Cambridge Chronicle.
2. J. Lee Robinson, Cambridge Tribune.
3. Harry J. Mahoney, Cambridge Sentinel.
4. Jerome V. Keating, Boston Post.
5. Edward J. Sennott,. Cambridge Recorder.
6. T. M. B. Hicks, Jr., Cambridge Standard

CITY GOVERNMENT

Mayor

WENDELL D. ROCKWOOD, 11 Avon Street

Councillors

President

EDWARD J. DUNPHY

Charles R. Apted	31a	Sacremento Street	Ward 10
Arthur F. Blanchard	159	Upland Road	At Large
Francis David Coady	154	Webster Avenue	Ward 3
Ed. A. Counihan, Jr.,	1426	Cambridge Street	At Large
Thomas E. Delehanty	135	Allston Street	Ward 6
Edward J. Dunphy	68	Richdale Avenue	At Large
Henry W. Durant	9	Lowlel Street	Ward 9
William M. Hogan	108	Fifth Street	" 2
Clarence P. Kidder	34	Magazine Street	" 7
Frank J. Lehan	75	Thorndike Stret	" 1
William J. Lynch	55	Cedar Street	" 11
George F. Mullett	10	Worcester Street	" 4
Peter J. Nelligan	23	Rindge Avenue	At Large
Charles H. Shea	65	Putnam Avenue	Ward 8
Ralph R. Stratton	1433	Cambridge Street	" 5

Clerk

EDWARD J. BRANDON

Messenger

A. FRANK MONTGOMERY

Regular meetings on Tuesday afternoon at 4.30 o'clock.

STANDING COMMITTEES OF THE CITY COUNCIL.

Bonds. Councillors Durant, Blanchard and Lehan.

City Engineering. Councillors Lynch, Lehan and Mullett.

City Planning. Councillors Blanchard, Kidder, Coady, Mullett and Lynch.

Claims. Councillors Nelligan, Lehan, Hogan, Apted and Stratton.

Elections and Printing. Councillors Lehan, Shea, Mullett, Blanchard and Hogan.

Finance. President Dunphy, Councillors Hogan, Kidder, Coady, Mullett, Stratton and Nelligan.

Health. Councillors Counihan, Shea and Durant.

Legislative Matters. President Dunphy, Councillors Nelligan, Counihan, Durant and Blanchard.

License. Councillors Hogan, Apted, Coady, Lynch and Stratton.

Ordinances. President Dunphy, Councillors Hogan, Apted, Stratton, Lynch, Durant and Counihan.

Parks and Cemeteries. Councillors Shea, Mullett, Lynch, Apted, Coady.

Public Property and Public Institutions. Councillors Delehanty, Apted, Lehan, Blanchard, Coady.

Public Safety. Councillors Apted, Delehanty, Lynch, Counihan and Kidder.

Roads and Bridges. Councillors Hogan, Stratton, Coady, Delehanty, Lynch, Kidder and Mullett.

Rules and Orders. Councillors Nelligan, Apted, Stratton, Counihan and Kidder.

Soldiers' Aid. Councillors Mullet, Hogan, Shea, Kidder and Nelligan.

Water Supply. Councillors Kidder, Counihan, Delehanty, Coady and Mullett.

Wires and Lamps. Councillors Delehanty, Hogan, Coady, Blanchard and Durant.

COMMITTEE APPOINTMENTS OF MEMBERS OF THE CITY COUNCIL.

Councillor President Dunphy. Finance, Ordinances, Legislative Matters.

Councillor Apted. Ordinances, Claims, Public Property and Public Institutions, Parks and Cemeteries, Public Safety, Rules and Orders, Licenses.

Councillor Blanchard. Public Property and Public Institutions, Wires and Lamps, Legislative Matters, Elections and Printing, Bonds, City Planning.

Councillor Coady. Finance, Roads and Bridges, Public Property and Public Institutions, Wires and Lamps, Water Supply, Parks and Cemeteries, Licenses, City Planning.

Councillor Counihan. Ordinances, Water supply, Legislative Matters, Health, Public Safety, Rules and Orders.

Councillor Delehanty. Roads and Bridges, Public Property and Public Institutions, Wires and Lamps, Water Supply, Public Safety.

Councillor Durant. Ordinances, Wires and Lamps, Legislative Matters, Health, Bonds.

Councillor Hogan. Finances, Ordinances, Roads and Bridges, Claims, Wires and Lamps, Elections and Printing, Licenses, Soldiers' Aid.

Councillor Kidder. Finance, Roads and Bridges, Water Supply, Public Safety, Rules and Orders, Soldiers' Aid, City Planning.

Councillor Lehan. Claims, Public Property and Public Institutions, City Engineering, Elections and Printing, Bonds.

Councillor Lynch. Ordinances, Roads and Bridges, City Engineering, Parks and Cemeteries, Public Safety, Licenses, City Planning.

Councillor Mullett. Finance, Roads and Bridges, Water Supply, City Engineering, Parks and Cemeteries, Elections and Printing, Soldiers' Aid, City Planning.

Councillor Nelligan. Finance, Claims, Legislative Matters, Rules and Orders, Soldiers' Aid.

Councillor Shea. Parks and Cemeteries, Health, Elections and Printing, Soldiers' Aid.

Councillor Stratton. Finance, Ordinances, Roads and Bridges, Claims, Rules and Orders, Licenses.

DEPARTMENTS AND BOARDS

City Hall. Telephone 6800.

EXECUTIVE DEPARTMENT

Wendell D. Rockwood . . . *Mayor*
Edward A. Counihan . . *Mayor's Clerk*
Office Hours: 8 A. M. to 4 P. M.
Office, Rooms 17 and 18, City Hall.

CITY CLERK DEPARTMENT

Edward J. Brandon . . . *City Clerk*
Thomas J. Conrick . . . *Assistant City Clerk*
Office Hours: 8 A. M. to 4 P. M.
Office, Rooms 8 and 9, City Hall.

TREASURY DEPARTMENT

Henry F. Lehan *City Treasurer and Collector of Taxes*
Office Hours: 8 A. M. to 2 P. M.
Office, Rooms 3 and 4, City Hall.

AUDITING DEPARTMENT

Charles H. Thurston . . . *City Auditor*
Office Hours: 8 A. M. to 2 P. M.
Office, Rooms 1 and 2, City Hall.

CLERK OF COMMITTEES DEPARTMENT

Daniel J. Toomey . . . *Clerk of Committees*
Edward F. Sullivan . . . *Assistant*
Office Hours: 8 A. M. to 4 P. M.
Office, Room 16, City Hall.

CITY MESSENGER DEPARTMENT

A. Frank Montgomery . . *City Messenger*
George T. Dooley . . . *Assistant*

Office Hours: 8 A. M. to 4 P. M.
Office, Room 20, City Hall.

LAW DEPARTMENT

James F. Aylward } . *City Solicitor*
*Harry F. R. Dolan } .

Office Hours (at City Hall): 8 A. M. to 12 M.
Office, Room 17, City Hall.

Boston Office, 519 Tremont Building. Telephone 251, Haymarket

*Appointed April 15, 1916.

ENGINEERING DEPARTMENT

Lewis M. Hastings . . . . *City Engineer*
Thomas P. O'Neil . . . *Superintendent of Sewers*

Office Hours: 8 A. M. to 5 P. M.
Office, Rooms 30 and 31, City Hall.

INSPECTION, ETC., OF BUILDINGS DEPARTMENT

Jeremiah F. Downey,
Superintendent of Public Buildings and Inspector of Buildings
Leonard D. Garfield } *Assistant Inspectors*
William J. O'Connor }
William A. Ford *Inspector of Plumbing*
Robert M. Welch *Inspector*
William J. Stanger, *Gas Inspector*
William H. Sheridan *Clerk*

Office Hours: 8A. M. *to* 4 P. M.
Office, Room 28, City Hall.

STREET DEPARTMENT

James A. Ferguson, *Acting Superintendent of Streets*
John H. Holt . . . . *Clerk*

Office Hours: 8 A. M. to 4 P. M.
Office, Room 12, City Hall.

HEALTH DEPARTMENT—BOARD OF HEALTH

Elie H. La Pierre . . . *Chairman*

Term, three years

Elie H. La Pierre . . . Term expires 1917
Jeremiah S. Sullivan . . . Term expires 1918
Dr. Harrie M. Gardner . . . Term expires 1919
Bradford H. Peirce, M.D. . . *Medical Inspector*
Kittie L. Magoun . . . *Secretary*
John D. Crowley . . . . *Clerk*
Walter C. Feeley, M.D. . . *Bacteriologist*
William A. Noonan, M.D. . . *Inspector of Milk*
Joseph L. Johnson . . . *Inspector of Provisions*

Office Hours: 8 A. M. to 4 P. M.
Rooms 25 and 26, City Hall.

PUBLIC SAFETY DEPARTMENT

Henry J. Cunningham . . *Commissioner*
John F. Murray . . . . *Acting Chief of Police Division*

Telephone 423.

James M. Casey . . . . *Acting Chief of Fire Division*

Telephone 109.

ASSESSORS' DEPARTMENT

James J. Casey . . . . *Chairman*
Bernard F. Fallon . . . *Secretary*

Term, three years

BERNARD F. FALLON . . . . Term expires 1916
JOHN C. HAVERTY . . . . . Term expires 1917
JAMES J. CASEY . . . . . Term expires 1918
CARRIE A. ESTES
GENEVIEVE G. HANNON } . . *Clerks*
RUTH E. O'BRIEN

Office Hours: 8 A. M. to 4 P. M.
Office, Rooms 21 and 22, City Hall.

CITY ELECTRICAL DEPARTMENT

TIMOTHY C. O'HEARN . . . *City Electrician*
Office Hours: 8 A. M. to 4 P. M.
Office, Central Fire Alarm, Inman Square Building. Telephone 125.

INSPECTOR OF ANIMALS DEPARTMENT

DAVID L. BOLGER, M.D.V. . . *Inspector of Animals*
Residence, 35 Ash Street. Telephone 3550.
(No Office or Hours.)

BRIDGE DEPARTMENT

FRANCIS J. SMITH . . . . *Bridge Commissioner*
Office Hours: 8 A. M. to 4 P. M.
Office, Room 12, City Hall.

SEALER OF WEIGHTS AND MEASURES DEPARTMENT

FELIX C. MCBRIDE . . . *Sealer*
Emery T. Morris
Hugh H. Healey } . . . *Deputy Sealers*
Joseph O'Neil

Office Hours: Fridays, 8 A. M. to 4 P. M. Saturdays, 8 A. M. to 12 M.
Office, Brattle Square Building. Telephone 509-N.

CITY PHYSICIAN

William G. Brousseau

Residence, 2222 Massachusetts Avenue. Telephone 1285.

Office, Central Square Building

Office Hours: Daily, 9 to 11 A. M. Telephone 660.

FENCE VIEWERS

Jeremiah F. Downey . . .	City Hall
Lewis M. Hastings . . .	City Hall

CAMBRIDGE PLANNING BOARD

William F. Harris : . . .	*Chairman*
Stella R. McKenzie . . .	*Secretary*
Harris Ginzberg	Term expires 1916
Stella F. McKenzie . . .	Term expires 1917
William R. Harris . . .	Term expires 1918
James J. Hill	Term expires 1919
Robert E. Martin	Term expires 1920

COMMISSION TO UNDERTAKE SANITARY SURVEY OF CITY OF CAMBRIDGE

Prof. George C. Whipple . .	*Chairman*
Dr. Bradford H. Peirce . . .	*Secretary*
Prof. George C. Whipple . .	
Prof. James Ford	
Dr. Bradford H. Peirce . . .	*Medical Inspector*
	Superintendent of Streets
Lewis M. Hastings . . .	*City Engineer*

SCHOOL COMMITTEE

Mayor Wendell D. Rockwood .	*Chairman*
John F. Gadsby	*Vice-Chairman*
Jeremiah D. M. Ford, 9 Riedesel Ave.	Term expires 1916
Florence Lee Whitman, 23 Everett St.	Term expires 1916
John F. Gadsby, 26 Willow St.	Term expires 1917
Mary A. Winslow, 152 Magazine St.	Term expires 1917
Charles F. J. McCue, 356 Western Ave.	Term Expires 1918
Harry N. Stearns, 16 Avon St. .	Term Expires 1918

School Supply Agent

Constantine J. Church

Superintendent of Schools

Michael E. Fitzgerald

Office Hours: 8.30 A. M. to 5 P. M.
Office, Rooms 13, 14 and 15, City Hall

CEMETERY DEPARTMENT—CEMETERY COMMISSIONERS

Jeremiah J. Sullivan . . . *Chairman*

Term, Three Years

Jeremiah J. Sullivan . . .	Term expires 1916
Timothy F. McCarthy . . .	Term expires 1916
Thomas E. Williams . . .	Term expires 1917
Eben H. Googins	Term expires 1917
Thomas F. Royle	Term expires 1918
George T. Quinn	Term expires 1918

Clerk of the Board

Edward J. Brandon

Office, Rooms 8 and 9, City Hall.

Superintendent of the Cemetery

Thomas J. Cavanagh

Clerk of the Cemetery

John J. McKenzie

Office Hours: at Cemetery, 8 A. M. to 5 P. M.
Office at Cemetery on Coolidge Avenue
Telephone 5

Person to Cause to be Properly Interred the Bodies of Soldiers and Sailors

EDWARD F. SULLIVAN

Office, Room 16, City Hall.

PUBLIC LIBRARY DEPARTMENT—TRUSTEES OF CAMBRIDGE PUBLIC LIBRARY

EDWARD P. COLLIER . . . . *President*

For One Year

JOHN F. GADSBY of School Committee

Citizens at Large. Term, Three Years.

THOMAS F. ATKINSON . . .	Term expires 1917
JOHN F. GADSBY	Term expires 1917
JOHN E. SOMERS	Term expires 1918
EDWARD P. COLLIER . . .	Term expires 1918
EDWARD REDSTONE	Term expires 1919
ALBERT E. LYNCH	Term expires 1919

Treasurer

ALBERT E. LYNCH

Secretary and Librarian

MATTHEW R. COPITHORNE

Library open: 9 A. M. to 9 P. M. Reading Room: 9 A. M. to 9 P. M. Sunday, 2 to 9 P. M.

Office at Library Building, Broadway, Irving and Trowbridge Streets
Telephone 610.

CITY HOSPITAL DEPARTMENT—TRUSTEES OF CAMBRIDGE CITY HOSPITAL

CHARLES S. CAHILL . . .	*Chairman*
CHARLES S. CAHILL . . .	Term expires 1917
JOHN H. HURLEY	Term expires 1918
ISAAC MCLEAN	Term expires 1919
HUGH E. MCGOLDRICK . . .	Term expires 1920
CHARLES H. THOMAS . . .	Term expires 1921

WATER WORKS DEPARTMENT—CAMBRIDGE WATER BOARD

JAMES J. SCULLY	*President*
Term, Five Years	
JAMES J. SCULLY	Term expires 1916
JOHN P. CONROY	Term expires 1917
JOHN F. O'BRIEN	Term expires 1918
JOSEPH E. DOHERTY	Term expires 1919
BERNARD E. MCDERMOTT	Term expires 1920
WALTER H. HARDING	*Clerk of the Board*
EDWARD W. QUINN	*Supt. of Water Works*
WALTER H. HARDING	*Water Registrar*

Office Hours: 8 A. M. to 4 P. M.
Office, Rooms 5 and 6, City Hall.

REGISTRARS OF VOTERS

J. FRANK FACEY	*Chairman*
Term, Four Years	
ALBERT H. HALL	Term expires 1917
J. FRANK FACEY	Term expires 1918
GUY R. MERRILL	Term expires 1919
JOHN P. MCCORMICK	Term expires 1920
ALBERT H. HALL	*Clerk*

Office at Central Square Building. Telephone 1027.

PARK DEPARTMENT—PARK COMMISSIONERS

JOHN J. AHERN	*President*
Term, Five Years	
DAVID J. NELLIGAN	Term expires 1917
JOHN J. AHERN	Term expires 1918
WILLIAM M. WADDEN	Term expires 1919
JOHN T. SHEA	Term expires 1920
JOHN F. SULLIVAN	Term expires 1921
ROSE E. MANNING	*Secretary*
JOHN F. DONNELLY	*General Superintendent*

Office Hours: 8 A. M. to 4 P. M.
Office, Room 11, City Hall.

SINKING FUND DEPARTMENT—COMMISSIONERS OF THE SINKING FUND

George G. Wright . . . *Chairman*

Term, Three Years

Thomas F. Royle . . . Term expires 1916
Edward N. Manning . . . Term expires 1917
Herbert M. Bridey . . . Term expires 1917
James O'Brien . . . . Term expires 1918
George G. Wright . . . Term expires 1918
Francis J. Carney . . . . Term expires 1919
William J. Hopkins . . . *Secretary*
Henry F. Lehan . . . . *Treasurer*

OVERSEERS OF THE POOR DEPARTMENT—OVERSEERS OF THE POOR

John R. McCool . . . . *Chairman*

Term, Five Years

Bernard B. Welch . . . Term expires 1917
James F. Mullen . . . . Term expires 1918
George P. O'Brien . . . Term expires 1919
John R. McCool . . . . Term expires 1920
Edmund A. Whitman . . . Term expires 1921
James E. Finnegan . . . *Secretary*
Charles E. Goodrow . . . *Supt. of City Home*

Office Hours, at Central Square Building, 8 A. M. to 4 P. M.
Telephones: Office, 660—City Home, 189

BOARD OF APPEAL

Clarence H. Blackall . . *Chairman*

Term, Three years.

Clarence H. Blackall (Architect) John B. Byrne (Master Builder)
Harry N. Stearns

William H. Sheridan . . . *Secretary*

Office, Room 28, City Hall

AGENT FOR COMMITTEE ON SOLDIERS' AID

EEWARD F. SULLIVAN

Office Hours: 8 A. M. to 4 P. M.
Office, Room 16, City Hall

TRUSTEES OF THE DOWSE INSTITUTE

FRANCIS G. PEABODY . . . *President*
WENDELL D. ROCKWOOD, Mayor . *Ex-officio*
EDWARD J. DUNPHY, Pres. of City Council *Ex-officio*
GEORGE HOWLAND COX JOSEPH H. BEALE, JR.
FRANCIS G. PEABODY
JOSEPH H. BEALE, JR. . . . *Secretary*
GEORGE HOWLAND COX . . . *Treasurer*

TRUSTEES OF THE SANDERS TEMPERANCE FUND AND BRIDGE CHARITABLE FUND

(Not yet appointed)

CIVIL SERVICE—LABOR DIVISION

HARRY L. LINCOLN . . . . *Registration Clerk*
Office Hour: 4 P. M daily. Except Saturday

CAMBRIDGE FREE EMPLOYMENT BUREAU

FRANCIS C. SMITH . . . *Superintendent*
Office—Basement at City Hall

PERSON TO RECEIVE INFORMATION OF DAMAGE BY DOGS

(*Ch.* 102, *Sect.* 151, *Revised Laws.*)
JOHN F. MURRAY

POUND KEEPERS

JAMES F. GRAY JOHN J. TOOMEY

COMMITTEE FOR THE PRESERVATION OF FISH

THOMAS P. O'NEIL

INSPECTORS OF JUNK SHOPS

Pawnbrokers' Shops and Second-Hand Stores and Dealers

JOHN J. MCBRIDE
JAMES E. MURRAY
JAMES M. KEANEY
JOHN F. MURRAY
PATRICK J. HURLEY
MICHAEL J. BRENNAN

HAY WEIGHERS

FRANK W. BARTLETT
WILLIAM N. NEALLY
GEORGE M. DAVID
JOHN N. BOLSTER

INSPECTOR OF PRESSED OR BUNDLED HAY OR STRAW

HARVEY O. TITUS

PUBLIC WEIGHERS

William S. Baggs
Francis E. Bailey
Ernest E. Bradbury
Harry Butland
William A. Cheyne
Theodore P. Clark
Dennis T. Coffey
Ernest Croake
Clyde E. Crozier
Leonard Day
William H. Delaney
John E. Foy
Frank Finnick
Alexander S. Ford
Philip C. Galvin
James B. Harris
John P. Healy
Robert Holden
John H. Holt
James Knowles
Neil Macdonald
Melvin McFarland
Edward A. Mahoney
William Maloney
Charles A. McGlauflin
Martin McMahon
Harry Meehan
August Pawlowski
George S. Penney
John F. Reilly
Manuel M. Rogers
Alexander Russell
John M. Thayer
John J. Toomey
James J. Travers
William H. Tupper
Lawrence J. Toomey
William Varney
Orne Vose
James A. Whelan

MEASURERS OF GRAIN

Emery T. Morris
Hugh H. Healey
Felix C. McBride
Joseph O'Neil

SURVEYOR OF MECHANICS' WORK

Charles A. Mason

KEEPER OF LOCK-UPS

John F. Murray

CONSTABLES

(With power to serve civil process)

John Abramowicz
Stephen C. Bresnahan
Thomas J. Conroy
Gilmore B. Creelman
Frederick L. Donovan
John Foster
Joseph Fox
Albert Gertson
James E. Lennon
Frank C. Levins
John T. Lynch
Charles E. McCarthy
George J. McNamara
Patrick J. Murphy
Clifford A. Noyes
Walter L. Potter
Charles L. Randall
James M. Shannon
Eugene L. Sullivan

Constables

(Without power to serve civil process)

Charles R. Apted
Deming E. Badger
David D. Burns
Lucian S. Cabot
Timothy A. Callahan
John J. Kelleher
Mark J. Kelley
James R. Keough
Charles A. Lincoln
Felix C. McBride

John F. Connelley
J. Joseph Corcoran
George J. Costigan
Peter H. Curran
William J. Dawson
Charles Emerson
William J. J. England
William J. England
Eugene M. Flanagan
Patrick J. Foley
John Good
Charles E. Goodrow
Charles V. Hamilton
Hugh H. Healey
James Hicks
Thomas A. Hughes
Dennis F. Hurley
Hugh H. Keenan
Max Keezer
William A. McKay
John J. McNamara
John M. McNamara
Emery T. Morris
James J. Murphy
Augustus Melvin
John P. Nelligan
Thomas J. O'Connor
William H. Porter
James D. Reddin
Timothy J. Shine
James H. Shuckrowe
John J. Sullivan
Daniel C. Sweeney
Thomas Tevlin
Patrick F. Tobin
Edward F. Wadden
Edward F. Walsh
Joel M. Wheeler

CITY OF CAMBRIDGE

VOTES CAST AT

State Election, November 2, 1915

Municipal Election, December 21, 1915

WARD	PREC.	Whole Number of Ballots Cast	GOVERNOR							LIEUTENANT-GOVERNOR							SECRETARY OF STATE					
			Nelson B. Clark of Beverly, Progressive.	Walter S. Hutchins of Greenfield, Socialist.	Samuel W. McCall of Winchester, Republican.	Peter O'Rourke of Medford, Socialist Labor.	William Shaw of Andover, Prohibition.	David I. Walsh of Fitchburg, Democratic.	Blank	Edward P. Barry of Boston, Democratic.	Calvin Coolidge of Northampton, Republican.	Alfred H. Evans of Hadley, Prohibition.	James Hayes of Plymouth, Socialist Labor.	Chester R. Lawrence of Boston, Prog.-Party Citizens, Nom.Paper.	Samuel P. Levenberg of Boston, Socialist.	Blank	Edwin A. Grosvenor of Amherst, Democratic.	Albert P. Langtry of Springfield, Republican.	Thomas J. Maher of Medford, Socialist Labor.	Marion E. Sproule of Lowell, Socialist.	Willard O. Wylie of Beverly, Prohibition.	Blank
1.....	1.....	244	0	0	18	0	2	220	4	214	20	2	0	1	0	7	211	20	2	0	2	9
1.....	2.....	301	4	1	48	0	6	238	4	232	49	1	2	2	2	13	221	49	5	1	2	23
	Totals....	545	4	1	66	0	8	458	8	446	69	3	2	3	2	20	432	69	7	1	4	32
2.....	1.....	338	3	1	39	0	2	289	4	287	38	2	0	0	1	10	275	40	2	2	0	19
2.....	2.....	282	0	1	32	1	5	242	1	232	31	2	5	1	0	11	228	31	4	1	0	18
	Totals....	620	3	2	71	1	7	531	5	519	69	4	5	1	1	21	503	71	6	3	0	37
3.....	1.....	261	2	3	18	0	1	232	5	219	25	2	2	1	5	7	210	26	1	6	3	15
3.....	2.....	245	3	5	27	1	0	206	3	199	22	2	2	1	5	14	188	27	3	6	0	21
3.....	3.....	334	2	2	65	1	4	257	3	244	69	3	2	1	3	12	241	70	3	1	4	15
3.....	4.....	290	4	6	46	0	4	228	2	213	55	1	2	3	7	9	206	57	4	6	2	15
	Totals....	1,130	11	16	156	2	9	923	13	875	171	8	8	6	20	42	845	180	11	19	9	66
4.....	1.....	170	2	0	41	0	4	119	4	119	39	3	1	2	1	5	118	38	1	0	3	10
4.....	2.....	279	2	5	77	0	13	177	5	160	90	8	2	4	7	8	159	94	1	7	6	12
4.....	3.....	272	1	3	107	1	12	145	3	134	121	6	4	2	0	5	144	114	2	3	2	7
4.....	4.....	330	4	2	135	0	13	176	12	167	143	6	0	3	2	9	169	149	0	1	3	8
	Totals....	1,051	9	10	360	1	42	617	12	580	393	23	7	11	10	27	590	395	4	11	14	37
5.....	1.....	339	2	0	75	3	11	247	1	234	91	2	2	0	1	9	227	92	1	1	3	15
5.....	2.....	370	4	1	111	0	11	240	3	221	130	4	2	2	3	8	221	122	5	1	4	17
5.....	3.....	486	6	1	252	1	23	203	0	183	273	15	1	6	1	7	174	278	4	1	11	18
5.....	4.....	375	3	0	255	1	18	97	1	79	276	11	0	3	2	4	82	274	0	1	10	8
	Totals....	1,570	15	2	693	5	63	787	5	717	770	32	5	11	7	28	704	766	10	4	28	58

6.....	1.....	274	2	13	129	2	25	102	1	106	135	7	3	3	9	11	108	131	3	13	4	15
6.....	2.....	351	5	2	195	0	20	126	3	112	210	8	4	0	3	14	161	160	2	4	5	19
6.....	3.....	393	4	4	134	1	19	224	7	205	140	18	1	2	3	24	203	154	1	4	9	22
6.....	4.....	510	13	5	269	0	39	181	3	159	302	19	0	7	8	15	170	297	3	7	13	20
	Totals....	1,528	24	24	727	3	103	633	14	582	787	52	8	12	23	64	642	742	9	28	31	76
7.....	1.....	412	2	1	199	1	23	183	3	162	217	14	3	3	3	10	167	216	4	4	10	11
7.....	2.....	419	4	2	156	0	13	233	11	224	172	5	0	0	3	15	214	176	2	3	5	19
7.....	3.....	443	8	4	286	0	24	120	1	107	300	14	2	4	5	11	109	308	2	3	6	15
7.....	4.....	375	6	4	182	0	24	157	2	144	200	11	2	2	4	12	151	194	1	4	6	19
	Totals....	1,649	20	11	823	1	84	693	17	637	889	44	7	9	15	48	641	894	9	14	27	64
8.....	1.....	496	6	5	249	0	22	210	4	192	272	12	0	5	5	10	184	274	2	4	12	20
8.....	2.....	460	5	5	263	1	9	172	5	141	288	7	1	5	6	12	149	279	0	1	9	20
8.....	3.....	448	4	1	79	0	3	354	7	338	82	1	0	0	2	25	331	88	1	1	1	26
	Totals....	1,404	15	11	591	1	34	736	16	671	642	20	1	10	13	47	664	641	3	9	21	66
9.....	1.....	492	9	1	311	0	21	148	2	123	343	10	0	4	4	8	135	331	0	2	13	11
9.....	2.....	485	6	4	250	0	12	211	2	188	265	11	1	5	5	10	195	258	0	6	9	17
9.....	3.....	676	6	5	272	0	35	353	5	331	293	20	1	8	6	17	331	301	3	6	12	23
	Totals....	1,653	21	10	833	0	68	712	9	642	901	41	2	17	15	35	661	890	3	14	34	51
10.....	1.....	475	11	2	307	0	12	143	0	122	331	7	0	6	4	5	130	327	1	2	9	6
10.....	2.....	469	7	3	307	1	13	135	3	115	325	11	1	5	3	9	123	323	1	4	6	12
10.....	3.....	414	5	3	84	0	7	310	5	303	87	6	1	4	3	10	300	90	0	4	7	13
	Totals....	1,358	23	8	698	1	32	588	8	540	743	24	2	15	10	24	553	740	2	10	22	31
11.....	1.....	536	4	5	291	1	7	228	0	196	312	4	0	6	5	13	197	309	2	5	3	20
11.....	2.....	561	6	2	163	1	12	380	3	349	183	6	1	0	3	19	342	182	2	1	6	28
11.....	2.....	444	3	2	85	1	2	337	14	320	98	1	1	2	3	19	303	106	2	2	2	29
	Totals....	1,541	7	9	539	3	21	945	17	865	593	11	2	8	11	51	842	597	6	8	11	77
Grand Totals		14,049	152	104	5,557	18	471	7,623	124	7,074	6,027	262	49	103	127	407	7,079	5,985	70	121	201	595

WARD	PRECINCT	TREASURER						AUDITOR							ATTORNEY-GENERAL					
		Henry L. Bowles of Springfield, Democratic.	Charles L. Burrill of Boston, Republican.	Charles E. Fenner of Worcester, Socialist.	William E. Marks of Worcester, Prohibition.	Jeremiah P. McNally of Salem, Socialist Labor.	Blank	Alonzo B. Cook of Boston, Republican.	James W. Holden of New Bedford, Socialist Labor.	Henry C. Iram of Warwick, Socialist.	Jacob C. Morse of Brookline, Democratic.	Edward C. R. Bagley	William G. Rogers of Wilbraham, Prohibition.	Blank	Henry C. Attwill of Lynn, Republican.	Frank Auchter of Boston, Prohibition.	Democratic.	Joseph Joyce Donahue of Medford, John McCarthy of Abington, Socialist.	William Taylor of Worcester, Socialist Labor.	Blank
1	1	208	20	1	2	3	10	25	0	2	203	0	0	14	24	1	207	0	1	11
1	2	223	52	3	1	2	20	55	3	4	213	0	1	25	53	5	214	4	1	24
Totals		431	72	4	3	5	30	80	3	6	416	0	1	39	77	6	421	4	2	35
2	1	275	40	2	0	4	17	41	2	1	265	0	1	28	41	3	268	1	1	24
2	2	230	29	1	1	3	18	33	1	3	212	0	1	32	42	0	219	3	1	17
Totals		505	69	3	1	7	35	74	3	4	477	0	2	60	83	3	487	4	2	41
3	1	209	24	7	3	4	14	27	3	9	206	0	3	13	22	4	208	8	1	18
3	2	185	26	5	1	3	25	27	2	5	185	0	0	26	31	4	182	6	1	21
3	3	243	68	1	3	3	16	67	5	1	239	0	5	17	71	4	243	2	1	13
3	4	205	57	6	2	3	17	58	0	9	200	0	3	20	56	3	206	6	1	18
Totals		842	175	19	9	13	72	179	10	24	830	0	11	76	180	15	839	22	4	70
4	1	112	37	3	2	1	15	40	1	2	108	0	2	17	44	1	106	2	0	17
4	2	159	87	7	7	1	18	84	1	6	162	0	7	19	92	5	163	7	0	12
4	3	142	115	3	2	3	7	121	3	4	128	0	3	13	124	4	124	3	3	14
4	4	166	147	1	2	1	13	153	0	2	161	0	3	11	153	7	154	1	0	15
Totals		579	386	14	13	6	53	398	5	14	559	0	15	60	413	17	547	13	3	58
5	1	226	89	1	1	2	20	95	1	2	221	0	1	19	94	2	222	1	1	19
5	2	208	132	5	4	4	17	131	2	4	205	0	4	24	140	4	204	1	1	20
5	3	176	272	1	10	3	24	264	2	2	180	0	10	28	277	14	174	2	2	17
5	4	84	274	1	8	0	8	268	0	2	84	1	13	7	284	7	75	1	0	8
Totals		694	767	8	23	9	69	758	5	10	690	1	28	78	795	27	675	5	4	64

6	1	101	137	14	6	2	14	141	2	13	95	0	7	16	139	7	95	12	2	19
6	2	112	211	4	4	2	18	217	0	4	103	0	6	21	216	4	105	4	2	20
6	3	200	156	3	7	3	24	155	1	3	197	0	9	28	154	9	197	3	3	27
6	4	167	304	8	8	2	21	320	1	11	149	0	7	22	327	8	146	8	1	20
Totals		580	808	29	25	9	77	833	4	31	544	0	29	87	836	28	543	27	8	86
7	1	162	218	5	10	3	14	217	2	7	159	0	10	17	225	7	155	4	5	16
7	2	218	178	5	3	2	13	175	2	5	208	0	6	23	179	5	206	8	1	20
7	3	107	305	4	10	0	17	305	4	4	106	0	10	14	305	8	109	4	1	16
7	4	143	198	6	5	0	23	199	1	5	135	0	9	26	208	7	132	4	1	23
Totals		630	899	20	28	5	67	896	9	21	608	0	35	80	917	27	602	20	8	75
8	1	188	268	6	12	0	22	256	0	7	197	0	14	22	279	12	177	7	0	21
8	2	146	280	5	2	7	20	307	1	5	109	0	11	27	290	3	141	6	2	18
8	3	329	83	2	0	2	32	85	2	3	321	0	2	35	85	4	327	3	0	29
Totals		663	631	13	14	9	74	648	3	15	627	0	27	84	654	19	645	16	2	68
9	1	135	332	2	11	0	12	323	1	1	135	0	11	21	353	11	109	2	1	16
9	2	190	264	6	9	0	16	236	0	7	204	0	10	28	270	10	181	5	1	18
9	3	333	295	7	12	3	26	300	2	7	323	0	13	31	313	14	310	8	0	31
Totals		658	891	15	32	3	54	859	3	15	662	0	34	80	936	35	600	15	2	65
10	1	131	328	2	5	1	8	318	0	4	125	0	13	15	337	7	118	2	0	11
10	2	121	320	7	6	1	14	306	2	5	125	0	8	23	333	6	107	5	2	16
10	3	290	91	5	7	0	21	89	3	4	286	0	8	24	93	7	288	4	0	22
Totals		542	739	14	18	2	43	713	5	13	536	0	29	62	763	20	513	11	2	49
11	1	199	308	4	2	2	21	297	0	4	201	0	5	29	311	5	192	5	1	22
11	2	340	180	1	4	1	35	183	2	1	332	0	6	37	183	7	341	2	2	26
11	3	300	102	2	0	3	37	105	2	3	295	0	1	38	100	3	306	4	0	31
Totals		839	590	7	6	6	93	585	4	8	828	0	12	104	594	15	839	11	3	79
Grand Totals		6,963	6,027	146	172	74	667	6,023	54	161	6,777	1	223	810	6,248	212	6,711	148	40	690

WARD	PREC.	COUNCILLOR Third District			COUNCILLOR Fourth District							SENATOR Second Suffolk Dist.			SENATOR Third Suffolk Dist.			SENATOR Second Middlesex Dist.				
		Timothy J. Buckley of Boston, Democratic.	Jeffrey C. Holmes of Boston, Republican.	Blank	Herbert P. Wasgatt of Everett, Republican.	Thomas O'Brien	William Murphy, 4 Leonard Ave.	William J. Moore	Fred Thyng	Russell A. Wood of Cambridge,	Blanks	James I. Green of Boston, Democratic.	Benjamin F. Thompson of Boston, Republican.	Blanks	Walter F. Davis of Cambridge, Republican.	Philip J. McGonagle of Boston, Democratic.	Blanks	James W. Bean of Cambridge, Progressive Party, Republican.	John L. G. Glynn of Cambridge, Democratic.	Albin M. Richards of Cambridge, Prog.-Party Citizens, Nom. Paper	Blanks
1	1	207	20	17								201	22	21								
1	2	227	46	28								220	60	21								
Totals		434	66	45								421	82	42								
2	1	272	41	25								257	52	29								
2	2	224	29	29								219	36	27								
Totals		496	70	54								476	88	56								
3	1	210	25	26								213	25	23								
3	2	194	24	27								193	28	24								
3	3	249	66	19								243	66	25								
3	4	207	57	26								203	56	31								
Totals		860	172	98								852	175	103								
4	1	114	36	20											43	113	14					
4	2	157	96	26											103	152	24					
4	3	133	119	20											134	117	21					
4	4	160	142	28											148	150	32					
Totals		564	393	94											428	532	91					

5..... 1.....				105		1				233							107	204	3	25
5..... 2.....				143						227							137	199	4	30
5..... 3.....				287	1					198							296	157	10	23
5..... 4.....				286				1		88							276	65	11	23
Totals.....				821	1	1		1		746							816	625	28	101
6..... 1.....				143						131							139	108	5	22
6..... 2.....				223						128							205	110	6	30
6..... 3.....				173						220							156	203	8	26
6..... 4.....				320						190							322	151	8	29
Totals.....				859						669							822	572	27	107
7..... 1.....				241						171							223	157	14	18
7..... 2.....				184						235							170	201	9	39
7..... 3.....				318					1	124							300	113	11	19
7..... 4.....				205						170							207	137	11	20
Totals.....				948					1	700							900	608	45	96
8..... 1.....				292						204							275	174	20	27
8..... 2.....				299						161							289	135	11	25
8..... 3.....				97			1			350							87	317	6	38
Totals.....				688			1			715							651	626	37	90
9..... 1.....				364						128							349	103	20	20
9..... 2.....				284						201							261	178	19	27
9..... 3.....				341						335							331	290	18	37
Totals.....				989						664							941	571	57	84
10..... 1.....				343						132							320	116	20	19
10..... 2.....				330						139							324	104	13	28
10..... 3.....				118						296							110	272	4	28
Totals.....				791						567							754	492	37	75
11..... 1.....				321						215							290	201	16	29
11..... 2.....				209						352							183	343	7	28
11..... 3.....				143						301							104	294	12	34
Totals.....				673						868							577	838	35	91
Grand Totals.....	2,354	701	291	5,769	1	1	1	1	1	4,929	1,749	345	201	428	532	91	5,461	4,332	266	644

REPRESENTATIVES IN GENERAL COURT

WD.	PR.	First Middlesex District: Charles Chapman of Cambridge, Democratic.	First Middlesex District: John H. Lynch of Cambridge, Democratic.	First Middlesex District: Blanks	Second Middlesex District: Albert M. Chandler of Cambridge, Progressive Party. Republican.	Second Middlesex District: Frederic F. Clauss of Cambridge, Progressive Party. Republican.	Second Middlesex District: Thomas A. Glennon of Cambridge, Democratic.	Second Middlesex District: Charles N. James of Cambridge, Republican.	Second Middlesex District: Albin Johnson of Cambridge, Prog. Party Citizens Nom. Paper.	Second Middlesex District: John T. Lynch of Cambridge, Democratic.	Second Middlesex District: Julius Meyers of Cambridge, Progressive Party.	Second Middlesex District: Charles H. Milliner of Cambridge, Democratic.	Second Middlesex District: John F. Ollis of Cambridge, Prog. Party Citizens Nom. Paper.	Second Middlesex District: Edward D. Stickney of Cambridge, Prog. Party Citizens Nom. Paper.	Second Middlesex District: Blanks	Third Middlesex District: Philip R. Ammidon of Cambridge, Progressive Party. Republican.	Third Middlesex District: Dennis J. Callahan of Cambridge, Dem. Independent Nom. Paper.	Third Middlesex District: Patrick J. Curley of Cambridge, Democratic.	Third Middlesex District: John P. Good of Cambridge, Democratic.	Third Middlesex District: Kenneth Page Hill of Cambridge, Progressive Party. Republican.	Third Middlesex District: Robert P. Lewis of Cambridge, Prog.-Party Citizens Nom. Paper	Third Middlesex District: John J. McCarthy of Cambridge, Democratic.	Third Middlesex District: William H. Reed of Cambridge, Prog.-Party Citizens Nom. Paper	Third Middlesex District: C. Burnside Seagrave of Cambridge, Progressive Party. Republican.	Third Middlesex District: Scott E. Williams of Cambridge, Prog.-Party Citizens Nom. Paper	Third Middlesex District: Blanks
1....	1....	201	201	86																						
1....	2....	235	224	143																						
Totals...		436	425	229																						
2....	1....	264	264	148																						
2....	2....	212	207	145																						
Totals...		476	471	293																						
3....	1....	206	213	103																						
3....	2....	174	197	119																						
3....	3....	243	228	197																						
3....	4....	221	201	158																						
Totals...		844	839	577																						
4....	1....				40	33	107	34	0	101	4	96	1	1	93											
4....	2....				90	81	156	91	4	138	17	133	3	3	121											
4....	3....				109	104	141	113	3	99	14	95	10	17	111											
4....	4....				141	135	160	149	6	130	15	131	5	2	116											
Totals...					380	353	564	387	13	468	50	455	19	23	441											

5.... 1....				91	85	211	88	5	199	16	190	1	4	127											
5.... 2....				124	114	206	120	1	189	26	183	1	3	143											
5.... 3....				268	255	170	264	13	158	23	144	7	9	147											
5.... 4....				268	255	80	264	6	62	25	60	8	9	88											
Totals...				751	709	667	736	25	608	90	577	17	25	505											
6.... 1....				135	134	117	130	4	88	23	84	2	3	102											
6.... 2....				204	199	109	210	8	89	24	80	4	4	122											
6.... 3....				144	148	216	149	3	153	27	149	6	9	175											
6.... 4....				314	317	161	296	11	112	41	105	9	9	155											
Totals...				797	798	603	785	26	442	115	418	21	25	554											
7.... 1....				215	203	153	214	8	141	41	144	8	7	102											
7.... 2....				167	164	193	155	3	193	28	190	4	2	158											
7.... 3....				299	289	105	282	5	88	42	94	4	5	116											
7.... 4....				197	203	124	187	5	109	40	113	8	8	131											
Totals...				878	859	575	838	21	531	151	541	24	22	507											
8.... 1....															270	9	158	183	256	20	173	33	261	17	108
8.... 2....															285	6	113	131	265	13	126	20	273	21	127
8.... 3....															74	11	296	320	78	4	324	9	73	5	150
Totals...															629	26	567	634	599	37	623	62	607	43	385
9.... 1....															341	10	95	116	331	22	85	34	313	26	103
9.... 2....															263	7	187	175	256	48	132	22	253	19	93
9.... 3....															307	14	306	291	292	11	294	13	324	6	170
Totals...															911	31	588	582	879	81	511	69	890	51	366
10... 1....															320	13	103	138	302	14	98	15	309	14	99
10... 2....															311	6	109	111	298	13	104	23	309	15	108
10... 3....															95	12	291	249	89	6	256	9	114	6	115
Totals...															726	31	503	498	689	33	458	47	732	35	322
11... 1....															294	14	176	168	286	9	166	16	319	7	153
11... 2....															172	30	322	289	168	12	291	10	205	10	174
11... 3....															108	26	274	269	111	4	261	4	120	3	152
Totals...															574	70	772	726	565	25	718	30	644	20	479
Grand T'ls	1756	1735	1099	2806	2719	2409	2746	85	2049	406	1991	81	95	2007	2840	158	2430	2440	2732	176	2310	208	2873	149	1552

WARD.	PREC.	COUNTY COMMISSIONER						COUNTY TREASURER				SHERIFF		
		Alfred L. Cutting of Weston, Republican.	John Lathrop Dyer of Cambridge, Repub. Reform Nom. Paper.	George A. Goodwin of Cambridge, Progressive Party.	Michael M. O'Connor of Cambridge, Democratic.	William H. Walsh of Framingham, Dem. Citizens Nom. Paper.	Blanks	DeWitt Clinton Clapp of Cambridge Repub. Citnzens Nom. Paper.	Joseph O. Hayden of Somerville, Republican.	David A. Keefe of Cambridge, Prog. Pary. Democratic.	Blanks	John J. Donovan of Lowell, Democratic.	John R. Fairbairn of Cambridge, Republican.	Blanks
1	1	18	1	4	183	22	16	3	20	198	23	143	86	15
1	2	49	6	1	197	20	28	8	46	197	50	153	110	38
Totals		67	7	5	380	42	44	11	66	395	73	296	196	53
2	1	30	3	3	255	18	29	3	46	232	57	220	85	33
2	2	29	1	1	220	11	20	2	32	202	46	181	82	19
Totals		59	4	4	475	29	49	5	78	434	103	401	167	52
3	1	17	3	5	199	15	22	4	21	194	42	183	58	20
3	2	23	2	3	181	11	25	4	26	166	49	143	69	33
3	3	60	4	6	226	18	20	3	70	227	34	201	107	26
3	4	53	4	4	188	8	33	5	57	180	48	175	87	28
Totals		153	13	18	794	52	100	16	174	767	173	702	321	107
4	1	34	3	1	103	7	22	2	37	106	25	103	51	16
4	2	85	10	9	143	7	25	9	91	145	34	126	131	22
4	3	113	51	9	75	1	23	13	108	114	37	106	148	18
4	4	140	7	7	143	9	24	12	136	142	40	132	179	19
Totals		372	71	26	464	24	94	36	372	507	136	467	509	75
5	1	85	3	4	200	16	31	7	90	200	42	167	142	30
5	2	113	7	6	196	10	38	10	124	188	48	178	158	34
5	3	255	22	13	156	14	26	25	257	157	47	124	330	32
5	4	266	12	7	62	6	22	36	249	59	31	61	301	13
Totals		719	44	30	614	46	117	78	720	604	168	530	931	109

6.....	1.....	133	6	10	96	3	26	8	133	99	34	85	162	27
6.....	2.....	195	7	48	61	7	33	13	199	97	42	99	228	24
6.....	3.....	145	7	10	185	7	39	20	144	170	59	166	187	40
6.....	4.....	299	13	24	133	9	32	30	292	140	48	132	350	28
Totals.....		772	33	92	475	26	130	71	768	506	183	482	927	119
7.....	1.....	208	15	11	146	7	25	15	210	152	35	131	257	24
7.....	2.....	171	8	3	194	7	36	11	170	187	51	174	203	42
7.....	3.....	292	11	20	96	4	20	26	285	98	34	76	341	26
7.....	4.....	195	7	13	127	6	27	14	188	120	53	110	223	42
Totals.....		866	41	47	563	24	108	66	853	557	173	491	1,024	134
8.....	1.....	254	23	19	151	10	39	42	238	165	51	153	310	33
8.....	2.....	269	13	18	128	6	26	25	270	123	42	119	314	27
3.....	3.....	73	3	8	310	8	46	5	80	289	74	288	108	52
Totals.....		596	39	45	589	24	111	72	588	577	167	560	732	112
9.....	1.....	333	18	12	92	15	22	39	314	106	33	147	325	20
9.....	2.....	252	13	17	166	8	29	26	245	166	48	172	286	27
9.....	3.....	286	21	16	265	36	52	30	287	294	65	268	353	55
Totals.....		871	52	45	523	59	103	95	846	566	146	587	964	102
10.....	1.....	310	22	14	103	9	17	29	309	113	24	104	347	24
10.....	2.....	302	25	13	99	9	21	31	299	112	27	105	340	24
10.....	3.....	87	7	10	268	11	31	16	81	282	35	273	106	35
Totals.....		699	54	37	470	29	69	76	689	507	86	482	793	83
11.....	1.....	285	19	7	181	8	36	22	289	166	59	173	327	36
11.....	2.....	160	9	5	334	10	43	10	172	325	54	306	209	46
11.....	3.....	96	5	5	280	16	42	13	98	272	61	273	119	52
Totals.....		541	33	17	795	34	121	45	559	763	174	752	655	134
Grand Totals.....		5,715	391	366	6,142	389	1,046	571	5,713	6,183	1,582	5,750	7,219	1,080

WARD	PRECINCT	AMENDMENTS TO CONSTITUTION									QUESTIONS FOR ACCEPTANCE					
		Land Takings Chap. 129, Resolves of 1915			Suffrage Chap. 130, Resolves of 1915			Taxation Chap. 140, Resolves of 1915			Acceptance of Chap. 267, Acts of 1915 PLAN B—CHARTER			Acceptance of Chap. 819, Acts of 1913 PENSIONS Non-contributory Old Age Pensions		
		Yes	No	Blank	Yes	No	Blank	Yes	No	Blank	Yes	No	Blank	Yes	No	Blank
1	1	154	20	70	70	139	35	103	44	97	81	111	52	167	23	54
1	2	154	47	100	79	173	49	138	45	118	90	143	68	183	37	81
	Totals	308	67	170	149	312	84	241	89	215	171	254	120	350	60	135
2	1	186	38	114	81	204	53	150	56	132	132	135	71	226	42	70
2	2	157	28	97	51	192	39	107	47	128	97	118	67	194	28	60
	Totals	343	66	211	132	396	92	257	103	260	229	253	138	420	70	130
3	1	152	27	82	73	146	42	109	48	104	82	110	69	178	24	59
3	2	132	32	81	54	144	47	100	41	104	85	105	55	159	29	57
3	3	216	35	83	88	205	41	168	36	130	139	132	63	245	24	65
3	4	180	32	78	85	158	47	139	42	109	102	127	61	202	29	59
	Totals	680	126	324	300	653	177	516	167	447	408	474	248	784	106	240
4	1	89	22	59	51	86	33	68	23	79	65	57	48	119	16	35
4	2	182	33	64	105	146	28	147	41	91	130	85	64	193	31	55
4	3	165	32	75	83	154	35	136	47	89	133	81	58	188	30	54
4	4	208	52	70	111	186	33	189	49	92	197	78	55	232	49	49
	Totals	644	139	268	350	572	129	540	160	351	525	301	225	732	126	193

5	1	199	48	92	98	209	32	161	58	120	162	126	51	224	50	65
5	2	220	56	94	115	221	34	188	62	120	173	134	63	238	62	70
5	3	269	109	108	170	281	35	277	100	109	274	157	55	277	124	85
5	4	207	89	79	130	221	24	206	86	83	215	110	50	222	94	59
Totals		895	302	373	513	932	125	832	306	432	824	527	219	961	330	279
6	1	164	36	74	90	149	35	126	54	94	112	103	59	179	39	56
6	2	208	57	86	117	200	34	177	70	104	165	118	68	227	63	61
6	3	239	50	104	99	247	47	190	64	139	173	129	91	240	68	85
6	4	290	96	124	152	321	37	258	97	155	264	153	93	316	95	99
Totals		901	239	388	458	917	153	751	285	492	714	502	311	962	265	301
7	1	229	112	71	157	230	25	224	88	100	214	139	59	286	70	56
7	2	241	61	117	91	276	52	195	76	148	155	188	76	281	47	91
7	3	265	80	98	134	274	35	230	94	119	244	130	69	281	89	73
7	4	216	63	96	119	224	32	182	77	116	185	135	55	247	70	58
Totals		951	316	382	501	1,004	144	831	335	483	798	592	259	1 095	276	278
8	1	285	105	106	177	278	41	316	69	111	299	127	70	291	125	80
8	2	255	125	80	183	251	26	284	76	100	271	118	71	255	137	68
8	3	228	58	162	90	269	89	196	80	172	143	218	87	287	46	115
Totals		768	288	348	450	798	156	796	225	383	713	463	228	833	308	263
9	1	285	125	82	196	273	23	336	78	78	342	94	56	253	155	84
9	2	264	134	87	157	297	31	313	78	94	289	134	62	241	171	73
9	3	411	136	129	188	431	57	396	113	167	380	201	95	400	166	110
Totals		960	395	298	541	1,001	111	1,045	269	339	1,011	429	213	894	492	267
10	1	261	122	92	158	289	28	301	94	80	309	111	55	229	169	77
10	2	252	115	102	155	292	22	281	91	97	277	122	70	217	173	79
10	3	242	59	113	86	266	62	215	61	138	146	194	74	270	63	81
Totals		755	296	307	399	847	112	797	246	315	732	427	199	716	405	237
11	1	317	102	117	133	366	37	273	124	139	269	173	94	304	126	106
11	2	340	77	144	127	378	56	299	92	170	235	242	84	364	100	97
11	3	231	68	145	89	278	77	190	83	171	139	204	101	282	54	108
Totals		888	247	406	349	1,022	170	762	299	480	643	619	279	950	280	311
Grand Totals		8,093	2,481	3,475	4,142	8,454	1,453	7,368	2,484	4,197	6,768	4,842	2,439	8,697	2,718	2,634

MUNICIPAL ELECTION, DECEMBER 21, 1915.

WARD	PRECINCT	Whole number of ballots cast	MAYOR							ASSESSOR			LICENSE QUESTION		
			Andrew	Brennan	Good	Henderson	Rockwood	Sherman	Blank	Casey	McArthur	Blank	Yes	No	Blank
1	1	286	7	38	207	2	27	0	5	201	34	52	147	98	42
1	2	369	13	28	261	2	61	0	4	253	48	68	173	158	38
Totals		655	20	66	468	4	88	0	9	454	82	120	320	256	80
2	1	393	10	49	270	1	59	0	4	284	51	58	186	171	36
2	2	313	6	45	199	1	56	1	5	227	37	49	143	138	32
Totals		706	16	94	369	2	115	1	9	511	88	107	329	309	68
3	1	295	2	36	206	1	47	0	3	222	25	48	160	103	32
3	2	269	1	29	171	1	58	2	7	183	36	50	153	83	33
3	3	375	7	57	230	1	73	1	6	274	57	44	162	164	49
3	4	323	5	37	198	3	75	0	5	236	54	33	158	140	25
Totals		1,262	15	159	805	6	253	3	21	915	172	175	635	490	139
4	1	218	5	20	137	7	4	0	7	132	53	33	108	85	25
4	2	300	4	33	146	1	111	0	5	200	75	25	115	163	22
4	3	297	5	30	117	6	130	4	5	157	109	31	139	130	28
4	4	355	0	45	113	2	189	3	3	181	159	15	91	250	14
Totals		1,170	14	128	513	16	472	7	20	670	396	104	453	628	89

5	1	368	13	32	194	2	122	0	5	265	78	25	148	187	33
5	2	390	5	35	200	3	144	0	3	264	104	22	106	261	23
5	3	488	14	31	145	7	288	1	2	273	188	27	111	354	23
5	4	361	3	7	78	1	270	1	1	141	198	22	46	300	15
Totals		1,607	35	105	617	13	824	2	11	943	568	96	411	1,102	94
6	1	278	2	27	103	10	128	3	5	125	125	28	137	127	14
6	2	327	10	35	87	1	189	2	3	130	181	15	128	182	16
6	3	400	4	48	171	5	159	2	11	234	143	23	149	226	25
6	4	499	1	33	141	1	313	7	3	210	257	32	124	347	28
Totals		1,504	17	143	502	17	789	14	22	699	706	98	538	882	83
7	1	427	3	40	161	1	219	1	2	232	161	34	135	267	25
7	2	418	6	64	182	5	153	1	7	226	141	49	193	179	44
7	3	466	6	25	107	3	318	2	5	158	272	36	123	312	31
7	4	388	4	38	128	3	209	1	5	169	187	32	149	210	29
Totals		1 699	19	167	578	12	899	5	19	785	761	151	600	968	129
8	1	491	10	51	143	2	280	1	4	296	164	31	108	346	37
8	2	471	5	56	101	5	295	2	7	244	196	31	127	313	31
8	3	477	2	161	219	1	85	0	9	339	82	56	284	145	48
Totals		1,439	17	268	463	8	660	3	20	879	442	118	519	804	116
9	1	473	5	23	79	2	359	2	3	243	208	22	89	359	25
9	2	461	6	31	152	5	258	1	8	320	113	28	112	329	20
9	3	660	3	48	260	2	332	4	11	393	226	41	202	412	46
Totals		1,594	14	102	491	9	949	7	22	956	547	91	403	1,100	91
10	1	457	1	21	112	1	320	0	2	207	218	32	71	371	15
10	2	450	2	19	97	7	319	0	6	219	203	28	72	349	29
10	3	425	4	57	251	4	102	0	7	299	85	41	208	176	41
Totals		1,332	7	97	460	12	741	0	15	725	506	101	351	896	85
11	1	518	5	23	187	10	287	1	5	236	251	31	141	350	27
11	2	561	8	65	280	5	195	1	7	354	159	48	248	271	42
11	3	465	3	64	261	6	121	1	9	298	117	50	246	160	59
Totals		1,544	16	152	728	21	603	3	21	888	527	129	635	781	128
Grand Totals		14,512	190	1,481	6,094	120	6,393	45	189	8,425	4,795	1,290	5,192	8,216	1,102

W. P.	Whole number of ballots cast	SCHOOL COMMITTEE																
		For Three Years					For Two Years						For One Year					
		Bradley	McCue	Skinner	Stearns	Blank	Barrett	Dwyer	Gadsby	Winslow	James H. Cooney, 3 Lamont Ave.	Blank	Boyle	Brennan	Ford	Hurley	Valley	Whitman	Blank
1.. 1..	344	208	94	194	46	146	228	203	87	49	0	121	210	67	53	90	93	44	131
1.. 2..	436	259	129	225	81	178	272	237	110	91	0	162	260	89	69	51	145	82	176
Totals	780	467	223	419	127	324	500	440	197	140	0	283	470	156	122	141	238	126	307
2.. 1..	514	307	140	299	96	186	384	268	141	74	0	161	317	120	93	58	183	85	172
2.. 2..	384	266	102	213	63	124	276	224	88	60	0	120	242	84	55	53	130	53	151
Totals	898	573	242	512	159	310	660	492	229	134	0	281	559	204	148	111	313	138	323
3.. 1..	397	250	103	229	64	148	287	209	126	65	0	107	248	92	66	36	152	68	132
3.. 2..	334	156	145	142	74	151	184	147	139	72	0	126	188	72	66	32	99	68	143
3.. 3..	467	263	152	235	109	175	265	224	198	114	0	133	258	90	98	33	185	107	163
3.. 4..	394	222	160	165	98	143	215	192	172	100	0	109	219	75	102	40	121	94	137
Totals	1,592	891	560	771	345	617	951	772	635	351	0	475	913	329	332	141	557	337	575
4.. 1..	256	138	92	107	61	114	122	122	96	60	0	112	116	55	58	32	86	50	115
4.. 2..	388	168	208	142	161	97	165	153	198	171	0	89	167	61	156	26	102	175	89
4.. 3..	377	143	203	111	188	109	144	134	191	190	0	95	130	71	169	25	81	179	99
4.. 4..	464	132	322	106	277	91	145	129	281	265	0	108	151	57	251	29	85	255	100
Totals	1,485	581	825	466	687	411	576	538	766	686	0	404	564	244	634	112	354	659	403

5.. 1..	468	241	228	180	176	111	219	194	209	171	0	143	254	74	155	32	128	160	133
5.. 2..	528	210	302	172	238	134	199	212	258	219	0	168	237	65	213	27	140	218	156
5.. 3..	768	176	567	171	539	83	161	143	582	525	0	125	213	40	519	13	121	533	97
5.. 4..	592	88	472	85	492	47	85	89	476	478	0	56	77	28	464	12	59	483	61
Totals	2,356	715	1,569	608	1,445	375	664	638	1,525	1,393	0	492	781	207	1,351	84	448	1,394	447
6.. 1..	335	125	176	97	174	98	114	124	152	167	0	113	106	58	151	25	81	158	91
6.. 2..	451	140	282	117	286	77	133	129	266	283	0	91	108	39	255	26	87	277	110
6.. 3..	597	250	329	190	280	145	234	243	295	292	0	130	213	90	282	32	169	290	118
6.. 4..	828	221	573	182	553	127	220	210	537	570	0	119	190	59	533	28	141	557	148
Totals	2,211	736	1,360	586	1,293	447	701	706	1,250	1,312	0	453	617	246	1,221	111	478	1,282	467
7.. 1..	592	205	369	175	330	105	195	201	338	332	0	118	185	67	305	36	138	326	127
7.. 2..	530	242	260	197	212	149	212	227	231	211	0	179	205	84	187	47	151	199	187
7.. 3..	731	116	576	111	554	105	122	121	551	556	0	112	109	47	518	17	87	554	130
7.. 4..	546	172	342	142	318	118	154	176	292	326	0	144	167	75	269	21	106	300	154
Totals	2,399	735	1,547	625	1,414	477	683	725	1,412	1,425	0	553	666	273	1,279	121	482	1,379	598
8.. 1..	828	231	568	211	542	104	242	219	550	531	1	113	229	81	527	26	144	534	115
8.. 2..	789	139	605	142	612	80	170	149	579	583	0	97	140	51	571	32	104	586	94
8.. 3..	657	393	232	313	177	199	408	402	155	136	0	213	295	179	132	70	240	142	246
Totals	2,274	763	1,405	666	1,331	383	820	770	1,284	1,250	1	423	664	311	1,230	128	488	1,262	455
9.. 1..	874	119	676	139	729	85	131	110	695	704	0	108	118	36	690	22	86	704	92
9.. 2..	844	205	565	263	569	86	215	210	591	563	0	109	179	75	581	64	110	566	113
9.. 3..	1,043	330	681	328	578	169	331	318	627	590	0	220	225	79	575	210	175	603	219
Totals	2,761	654	1,922	730	1,876	340	677	638	1,913	1,857	0	437	522	190	1,846	296	371	1,873	424
10. 1..	828	133	653	134	669	67	128	127	661	656	0	84	130	44	648	17	86	656	75
10. 2..	780	125	611	121	604	99	126	119	610	600	0	105	111	62	586	23	79	610	89
10. 3..	683	439	213	400	178	136	415	395	208	180	0	168	377	127	176	60	300	178	148
Totals	2,291	697	1,477	655	1,451	302	669	641	1,479	1,436	0	357	618	233	1,410	100	465	1,444	312
11 1..	853	235	557	206	551	157	242	231	546	530	0	157	186	128	521	25	143	535	168
11 2..	852	386	386	357	343	232	422	348	344	305	0	285	304	321	269	38	190	313	269
11. 3..	741	440	221	359	194	268	436	394	182	172	0	298	321	294	124	54	234	169	285
Totals	2,446	1,061	1,164	1,022	1,088	657	1,100	973	1,072	1,007	0	740	811	743	914	117	567	1,017	723
G. Tls.	21,493	7,873	12,294	7,060	11,216	4,643	8,001	7,333	11,762	10,991	1	4,898	7,185	3,136	10,487	1,462	4,761	10,911	5,034

WARD	PRECINCT	Whole number of ballots cast	COUNCILLORS-AT-LARGE													
			Allen	Balsor	Belcher	Blanchard	Briley	Clary	Corcoran	Corkery	Counihan	Culhane	Curley	Curtin	Dunphy	Goodwin
1	1	286	38	7	8	15	104	94	33	37	104	9	21	25	105	8
1	2	369	74	19	21	32	94	140	55	50	150	18	33	23	126	23
Totals		656	112	26	29	47	198	234	88	87	254	27	54	48	231	31
2	1	393	31	13	13	10	99	134	66	38	193	11	24	26	167	17
2	2	313	31	12	16	20	93	90	55	36	151	8	22	26	139	9
Totals		706	62	25	29	30	192	224	121	74	344	19	46	52	306	26
3	1	295	30	4	12	8	85	51	49	48	110	17	25	15	144	9
3	2	269	26	10	8	8	70	54	45	39	90	20	20	13	131	5
3	3	375	35	26	32	23	89	52	50	45	119	28	33	20	192	30
3	4	323	23	14	17	14	70	41	58	37	101	13	15	16	195	21
Totals		1,262	115	52	70	53	314	199	205	170	421	76	93	66	661	65
4	1	218	11	9	23	15	41	22	49	35	47	16	18	9	88	20
4	2	300	32	16	38	40	51	39	58	32	79	21	26	14	134	40
4	3	297	35	29	40	65	43	44	49	43	47	25	19	11	97	59
4	4	355	38	23	71	88	51	41	50	24	76	24	17	12	114	83
Totals		1,170	116	77	172	208	186	146	206	134	249	86	80	46	433	202
5	1	368	43	26	21	47	102	52	70	44	126	5	25	15	205	36
5	2	390	44	18	26	43	95	57	68	30	138	13	16	18	178	35
5	3	488	101	32	68	121	104	70	71	22	186	13	8	4	209	82
5	4	361	60	23	80	152	30	40	33	22	85	12	8	3	88	125
Totals		1,607	248	99	195	363	321	219	242	118	535	43	57	40	680	278

6..... 1.....	278	24	21	71	66	38	36	54	32	42	18	23	17	77	64
6..... 2.....	327	44	26	86	112	38	41	42	32	47	22	15	14	70	87
6..... 3.....	400	52	23	71	80	55	36	93	59	80	25	30	25	119	75
6..... 4.....	499	75	25	162	160	33	51	66	40	85	22	26	17	128	115
Totals.....	1,504	195	95	390	418	164	164	255	163	254	87	94	73	394	341
7..... 1.....	427	48	16	69	102	53	45	104	108	82	36	28	18	130	82
7..... 2.....	418	27	7	52	70	81	46	133	112	60	38	44	24	128	61
7..... 3.....	466	79	23	129	161	34	55	63	39	74	14	19	18	115	130
7..... 4.....	388	42	22	85	96	33	46	70	67	52	23	29	24	98	78
Totals.....	1,699	196	68	335	429	201	199	370	326	268	111	120	84	471	351
8..... 1.....	491	56	26	44	87	56	54	99	49	159	35	44	16	236	62
8..... 2.....	471	60	33	85	145	49	44	104	52	134	26	32	12	134	104
8..... 3.....	477	42	10	30	43	69	51	229	211	65	97	112	32	134	32
Totals.....	1,439	158	69	159	275	174	149	432	312	358	158	188	60	504	198
9..... 1.....	473	62	11	80	136	23	27	92	26	140	39	18	15	190	105
9..... 2.....	461	21	15	59	79	23	20	133	37	184	19	116	18	238	64
9..... 3.....	660	65	30	87	132	58	69	203	48	171	32	130	172	248	101
Totals.....	1,594	148	56	217	347	104	116	428	111	495	90	264	205	676	270
10..... 1.....	457	92	25	76	137	31	35	49	26	101	39	27	12	165	93
10..... 2.....	450	62	19	73	150	22	37	51	12	124	23	47	10	198	95
10..... 3.....	425	33	11	34	51	45	26	123	43	71	12	233	40	182	35
Totals.....	1,332	187	55	183	338	98	98	223	81	296	74	307	62	545	223
11..... 1.....	518	68	19	87	174	35	48	71	20	74	21	69	15	164	104
11..... 2.....	561	60	11	50	89	40	39	94	31	87	16	124	26	169	60
11..... 3.....	465	32	7	34	66	38	30	81	33	57	16	145	28	139	50
Totals.....	1,544	160	37	171	329	113	117	246	84	218	53	338	69	472	214
Grand Totals.....	14,512	1,696	661	1,949	2,837	2,075	1,857	2,813	1,659	3,691	826	1,641	803	5,374	2,199

COUNCILLORS-AT-LARGE—Continued.

WARD	PREC.	Hannigan	Harrington	Horrigan	Joel	Kelleher	Kennedy	Macklin	McDermod	Nelligan	O'Connor	Pill	Talbot	Wall	Wentworth	Whaley	Blank
1.....	1.....	8	82	29	7	26	36	2	3	27	48	12	11	1	4	6	234
1.....	2.....	35	49	32	27	29	36	1	9	29	46	14	18	3	9	4	277
Totals.....		43	131	61	34	55	72	3	12	56	94	26	29	4	13	10	511
2.....	1.....	30	92	57	14	35	70	2	4	27	53	16	9	5	9	5	302
2.....	2.....	19	91	38	11	16	48	2	3	23	66	10	8	5	4	1	199
Totals.....		49	183	95	25	51	118	4	7	59	119	26	17	10	13	6	501
3.....	1.....	15	96	36	16	19	31	1	2	28	52	33	12	3	9	6	214
3.....	2.....	17	85	25	33	12	36	3	4	16	46	38	10	5	5	4	198
3.....	3.....	18	112	54	26	14	73	1	5	51	77	36	17	3	12	12	215
3.....	4.....	22	105	23	35	12	59	1	5	32	49	65	24	2	12	14	197
Totals.....		73	397	136	110	58	199	6	16	128	227	171	61	16	38	36	824
4.....	1.....	11	36	19	27	18	38	5	4	21	50	12	16	2	4	10	196
4.....	2.....	20	59	16	66	15	57	4	9	36	44	45	28	8	24	16	133
4.....	3.....	19	41	11	66	15	40	2	13	35	48	16	45	8	17	34	172
4.....	4.....	29	59	8	100	13	56	1	29	37	67	29	61	6	40	29	144
Totals.....		79	195	54	259	61	191	12	55	129	209	102	150	24	85	89	645
5.....	1.....	29	123	14	28	26	55	2	11	49	50	42	31	3	27	12	153
5.....	2.....	27	105	10	57	26	69	6	19	71	44	47	27	2	21	19	231
5.....	3.....	42	83	2	85	21	75	4	40	108	83	29	67	7	104	30	131
5.....	4.....	32	28	4	115	19	47	2	41	66	10	20	100	2	77	32	88
Totals.....		130	339	30	285	92	246	14	111	294	187	138	225	14	229	93	603

6.....	1..	14	25	13	72	13	35	6	15	29	27	16	45	8	20	40	151
6.....	2.....	27	24	12	93	15	58	7	21	45	40	19	60	5	58	26	122
6.....	3.....	33	43	9	91	27	60	6	20	53	75	23	52	16	60	21	188
6.....	4.....	46	32	10	128	15	75	7	40	58	45	22	98	10	156	39	210
Totals.....		120	124	44	384	70	228	26	96	185	187	80	255	39	294	126	671
7.....	1.....	38	39	7	81	24	76	3	28	84	48	23	88	11	64	20	153
7.....	2.....	36	36	2	98	26	31	4	11	63	63	29	39	20	20	62	248
7.....	3.....	27	21	8	165	14	81	2	28	62	27	39	99	9	112	48	169
7.....	4.....	18	28	8	105	15	51	7	21	49	44	45	49	16	100	24	207
Totals.....		119	124	26	449	79	239	16	88	258	182	136	275	56	296	154	777
8.....	1.....	50	55	11	71	34	69	19	34	154	40	24	70	10	108	29	163
8.....	2.....	72	33	8	84	25	70	12	32	111	23	12	102	10	105	28	143
8.....	3.....	36	43	18	35	39	37	10	11	76	77	13	23	5	24	18	286
Totals.....		158	131	37	190	98	176	41	77	341	140	49	195	25	237	75	592
9.....	1.....	39	11	2	105	36	58	18	39	165	18	7	97	6	143	31	153
9.....	2.....	28	16	9	66	25	98	8	11	184	32	9	41	4	154	22	120
9.....	3.....	48	27	10	105	56	104	18	70	133	48	14	93	9	93	39	227
Totals.....		115	54	21	276	117	260	44	120	482	98	30	231	19	390	92	500
10.....	1.....	44	20	3	105	46	70	68	47	133	19	5	98	3	105	36	121
10.....	2.....	36	20	3	84	30	87	22	38	143	29	11	96	2	105	48	123
10.....	3.....	23	42	17	29	60	81	15	11	122	66	10	28	7	18	17	215
Totals.....		100	82	23	218	136	238	105	96	398	114	26	222	12	228	101	459
11.....	1.....	59	40	4	111	76	61	37	41	168	66	8	158	6	40	50	178
11.....	2.....	40	64	5	66	137	67	15	23	241	154	14	131	4	40	37	310
11.....	3.....	42	31	11	40	153	40	15	20	217	114	10	69	11	17	32	282
Totals.....		141	135	20	217	366	168	67	84	626	334	32	358	21	97	119	770
Grand Totals....		1,126	1,896	549	2,447	1,182	2,135	338	762	2,946	1,838	817	2,020	237	1,920	901	6,853

CANDIDATES FOR COMMON COUNCIL.

Ward One

	Gaffney	Lehan	O'Connell	Blank
Precinct 1	41	133	102	11
Precinct 2	141	141	71	16
Total	182	274	173	27

Ward Two

	Hogan	Kelleher	Williams	Blank
Precinct 1	194	118	68	13
Precinct 2	141	79	84	9
Total	335	197	152	22

Ward Three

	Bulger	Coady	Mahoney	McNamara	Murphy	O'Rourke	Sennott	Skinner	Whalen	Blank
Precinct 1	35	112	5	9	20	4	27	44	26	13
Precinct 2	40	92	25	14	19	2	23	25	16	13
Precinct 3	43	66	11	4	12	20	68	53	82	16
Precinct 4	36	85	33	14	11	4	54	29	38	19
Total	154	355	74	41	62	30	172	151	162	61

Ward Four

	Crowley	Donovan	Dooley	Lee	McCusker	McDuffee	Mullett	O'Neil	Taylor	Welch	Blank
Precinct 1	17	29	4	8	32	0	19	3	3	82	21
Precinct 2	28	10	88	0	21	2	58	23	13	46	12
Precinct 3	74	11	16	16	30	4	66	8	12	47	13
Precinct 4	15	4	34	4	13	4	112	70	37	47	15
Total	134	54	142	28	96	10	255	103	65	222	61

CANDIDATES FOR COMMON COUNCIL—Continued

Ward Five

	Bergin	Carl	Gannon	McLaughlin	Stratton	Blank
Precinct 1	186	30	28	25	81	18
Precinct 2	163	50	14	39	97	27
Precinct 3	125	37	11	14	279	22
Precinct 4	42	49	13	12	232	13
Total	516	166	66	90	689	80

Ward Six

	Bradbury	Danskin	Delehanty	Kee	Blank
Precinct 1	87	39	90	36	26
Precinct 2	87	94	101	30	15
Precinct 3	112	84	157	24	23
Precinct 4	172	117	127	68	15
Total	458	334	475	158	79

Ward Seven

	Flanagan	Kidder	Leland	Liston	Murphy	Spain	Wilson	Wright	Blank
Precinct 1	41	167	28	15	94	28	17	25	12
Precinct 2	50	34	17	9	158	14	9	107	18
Precinct 3	44	201	76	2	29	10	25	49	30
Precinct 4	78	81	97	9	37	12	14	33	27
Total	213	483	218	35	318	64	65	214	87

Ward Eight

	Butterfield	Clark	Harris	McDonald	Shea	Blank
Precinct 1	42	183	59	30	161	16
Precinct 2	76	179	47	37	118	14
Precinct 3	21	45	6	60	322	23
Total	139	407	112	127	601	53

CANDIDATES FOR COMMON COUNCIL—Concluded

Ward Nine

	Austin	Durant	Grace	Odenwald	Skinner	Blank
Precinct 1	63	311	13	20	52	14
Precinct 2	96	264	11	18	52	20
Precinct 3	363	261	43	38	33	22
Total	422	836	67	76	137	56

Ward Ten

	Apted	Connelly	Lamson	Stephens	Blank
Precinct 1	253	74	30	83	17
Precinct 2	205	109	79	39	18
Precinct 3	74	299	8	29	15
Total	532	482	117	151	50

Ward Eleven

	Foley	Lynch	Malo	McKenzie	McLean	Blank
Precinct 1	30	114	181	131	46	16
Precinct 2	98	195	145	86	19	18
Precinct 3	48	217	131	35	17	17
Total	176	526	457	252	82	51

NUMBER OF REGISTERED MALE VOTERS BY WARDS, FROM 1897 TO 1916.

Ward	November 1897	December 1897	November 1898	December 1898	November 1899	December 1899	November 1900	December 1900	November 1901	December 1901	November 1902	December 1902	November 1903	December 1903	November 1904	December 1904	November 1905	December 1905
1	2,362	2,397	2,264	2,333	2,257	2,302	2,492	2,554	2,491	2,566	878	999	980	1,036	1,007	1,044	995	1,037
2	3,797	3,854	3,847	3,949	3,973	4,039	4,492	4,530	4,364	4,461	912	1,008	1,011	1,168	1,112	1,152	1,038	1,066
3	1,885	1,934	2,004	2,060	1,950	2,039	2,081	2,093	1,885	1,939	1,608	1,700	1,690	1,797	1,840	1,929	1,797	1,834
4	3,000	3,036	2,877	2,979	2,740	2,861	3,003	3,099	2,980	3,083	1,519	1,621	1,621	1,763	1,726	1,809	1,680	1,777
5	1,686	1,716	1,703	1,776	1,680	1,750	2,007	2,091	2,198	2,244	1,564	1,622	1,645	1,708	1,715	1,764	1,750	1,825
6											1,567	1,747	1,749	1,930	1,931	2,024	1,973	2,084
7											1,753	1,899	1,834	1,938	1,946	2,052	1,941	2,038
8											1,336	1,510	1,540	1,650	1,682	1,723	1,625	1,713
9											1,334	1,428	1,455	1,520	1,507	1,549	1,505	1,547
10											1,099	1,142	1,132	1,157	1,173	1,199	1,195	1,223
11											1,384	1,463	1,494	1,560	1,586	1,629	1,636	1,696
Totals	12,730	12,937	12,695	13,097	12,600	12,991	14,075	14,367	13,918	14,293	14,954	16,139	16,151	17,167	17,225	17,874	17,135	17,840

Ward	November 1906	December 1906	November 1907	December 1907	November 1908	March 1909	November 1909	March 1910	November 1910	March 1911	December 1911	March 1912	December 1912	March 1913	November 1913	March 1914	November 1914	March 1915	December 1915 (State)	December 1915 (City)
1	977	978	903	926	921	947	862	908	831	873	826	829	784	820	740	766	727	770	716	716
2	989	997	924	940	950	973	923	951	889	920	901	917	895	931	843	873	824	869	794	797
3	1,467	1,495	1,460	1,560	1,521	1,584	1,509	1,597	1,428	1,530	1,487	1,541	1,483	1,565	1,438	1,508	1,439	1,484	1,364	1,370
4	1,320	1,370	1,349	1,494	1,357	1,437	1,362	1,461	1,369	1,455	1,419	1,444	1,395	1,458	1,358	1,413	1,372	1,475	1,456	1,467
5	1,792	1,802	1,718	1,756	1,722	1,776	1,696	1,734	1,738	1,797	1,765	1,789	1,830	1,871	1,803	1,856	1,803	1,858	2,013	2,019
6	1,948	1,962	1,859	1,935	1,868	1,933	1,821	1,889	1,780	1,864	1,880	1,938	1,841	1,900	1,842	1,906	1,843	1,945	1,948	1,953
7	1,958	1,993	1,869	1,937	1,907	1,967	1,787	1,850	1,785	1,834	1,756	1,832	1,877	1,924	1,858	1,935	1,949	2,040	2,067	2,076
8	1,627	1,631	1,597	1,655	1,613	1,638	1,493	1,576	1,474	1,510	1,519	1,559	1,711	1,748	1,606	1,650	1,621	1,667	1,703	1,709
9	1,542	1,555	1,515	1,557	1,565	1,607	1,548	1,596	1,596	1,617	1,636	1,649	1,747	1,784	1,761	1,787	1,709	1,825	2,061	2,063
10	1,184	1,193	1,172	1,202	1,196	1,231	1,195	1,248	1,255	1,273	1,318	1,327	1,424	1,446	1,423	1,453	1,418	1,444	1,561	1,563
11	1,607	1,628	1,537	1,570	1,493	1,535	1,493	1,534	1,542	1,569	1,460	1,633	1,730	1,794	1,736	1,783	1,782	1,844	1,905	1,907
Totals	16,411	16,604	15,903	16,532	16,113	16,628	15,689	16,344	15,687	16,242	15,977	16,458	16,717	17,241	16,408	16,930	16,577	17,221	17,588	17,640

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